

Commercial FERTILIZERS

Report for 1965

Part II: List of Registrants,
Tonnages Sold, and Analyses .

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Chemist Emeritus

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Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller, Charles Hahn and Miss Helen Kocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Mrs. Marilyn Fishbone.

REPORT ON INSPECTION AND ANALYSIS OF COMMERCIAL FERTILIZERS

1965

Part II: List of Registrants, Tonnages Sold, and Analyses

H. J. Fisher, Chemist Emeritus

INTRODUCTION

For the first time last year the annual fertilizer report was issued in two parts:¹

Part I consisted of a table listing the number of fertilizers sampled, the number of guaranties made for these samples, the number of samples found deficient, and the average percentage of the claimed guaranties found present, for each manufacturer: this table did not show actual analyses of individual brands. This circular was designed with two purposes in mind: It would enable a quick comparison of the products of different manufacturers with regard to which gave the best value for the money after allowance was made for the fact that an excess over guaranty of one ingredient could offset a deficiency in another; and it could be prepared for publication more quickly than the former type of report, and therefore be in the fertilizer user's hands soon enough to be useful in guiding his purchases. A similar circular has been issued covering the 1965 inspection.

For those who desired the actual analytical results on individual samples, the names and addresses of all registered (and some unregistered) manufacturers, tonnage data, etc., Part II of the 1964 report was issued as Bulletin 671; the present bulletin covers the same data for the 1965 inspection.² These bulletins follow more closely the annual reports of previous years, but they differ in one important respect, namely, that in the table on mixed fertilizers all fertilizers of each grade ratio are placed together. Each bulletin also contains a special table on the water-soluble phosphoric acid content of certain grades that was requested by potato growers.

Comments on this new method of reporting are still solicited.

CONNECTICUT LAW AND REGULATIONS REGARDING COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime." An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and 1 per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other

¹Conn. Agr. Expt. Sta. Circular 226 (1965); Bulletin 671 (1965).

²Conn. Agr. Expt. Sta. Circular 228 (1966).

natural organic materials, where total phosphoric acid may be guaranteed instead), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of \$10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax payable semi-annually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

The law exempts from registration, and from other requirements, only: (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to The Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes must be registered as fertilizers and the specified fees paid thereon. For such products the registration fee is \$10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this State. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

OFFICIAL DEFINITIONS OF FERTILIZER TERMS AND MATERIALS

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for \$4.00.

FIRMS AND REGISTRATIONS

For 1965, 127 firms registered 735 brands of fertilizer for sale in this State. The following list gives the names and addresses of these manufacturers and the brands registered by them. Included also are the companies and brands whose products were not registered because they were sold only in packages of 10 pounds or less net weight; these are distinguished by being starred. Listed also are a few companies whose products were not in small packages but failed to be registered. Brands not in small packages that were unregistered for any reason are marked with a /.

Mfr. No.	Name, Address and Brands
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1.	AGRICULTURAL PRODUCTS CO., INC., 589 Atwells Ave., Providence 9, R.I. /APCO Country Club 20-10-5 Lawn Fertilizer /Blue Ribbon Lawn and Garden Fertilizer 5-10-5 Comet 5-10-5 Golden Comet 10-6-4 Guardian 8-6-4 /Spur Lawn and Garden 5-10-5 /Super Spur Lawn Food Super Turf King 10-6-4 Turf King 5-10-5
2.	AGRICULTURAL SUPPLY CO., 221 Richmond Ave., West Haven, Conn. Yale Special Mixture 8-6-2
3.	AGWAY, INC., 300 S. Geddes St., Syracuse, N.Y. Agway 0-10-30 W/B Agway 5-10-10 with 1.8 Mg Agway 5-10-10 with 1.8 Mg and 0.02 Boron Agway 10-6-4 60% of N from Ureaform Agway 10-10-10 Agway 10-15-15 Taterbest Agway 15-10-10 Super Formula Agway 21-14-14 Agway 20 Phos 0-20-0 Agway 33 1/2 N Ammonium Nitrate Fertilizer Agway Ferti Flow 10-20-10 Agway Ferti Flow 10-20-20 Agway Ferti Flow 12-12-12 Agway Ferti Flow 12-12-12 LC Agway Ferti Flow 15-10-10 Agway Ferti Flow 15-15-15 Agway Ferti Flow 16-8-8 Agway Ferti Flow 18-46-0

3. AGWAY, INC., 300 S. Geddes St., Syracuse, N.Y. - Cont.

- Agway Free Flow 0-10-30 W/B
- Agway Free Flow 0-10-40
- Agway Free Flow 0-15-30
- Agway Free Flow 0-20-20
- Agway Free Flow 0-25-25
- Agway Free Flow 5-20-20
- Agway Free Flow 8-16-16
- Agway Free Flow 10-10-10
- Agway Muriate of Potash 0-0-60
- Agway Special Starter 20-20-20
- Agway Start-N-Gro 16-32-16
- Agway Sulfate of Ammonia
- /Agway Sulfate of Potash
- Eastern States 0-25-25
- Eastern States 5-10-10
- Eastern States 8-16-16
- Eastern States 10-5-5 Green Lawn
- Eastern States 10-5-5 Green Lawn with Dacthal
- Eastern States 10-6-4 Lawn Special
- Eastern States 10-15-15
- Eastern States 10-15-15 Taterbest with 1.2 Mg
- Eastern States 10-20-10
- Eastern States 10-20-20
- Eastern States Evergreen Plant Food 8-8-8
- Eastern States Plant Food 5-10-10
- Eastern States Start-N-Gro 16-32-16
- Squire Applegate Composted Cow Manure 1-1-1
- Squire Applegate Composted Sheep Manure 1-1-1
- /Eastern States Triple Superphosphate
- /Eastern States 12-12-12 LC
- Squire Applegate Evergreen Plant Food 8-4-4 with O.N.
- Squire Applegate Garden Plant Food 5-10-5
- Squire Applegate Greenlawn 10-5-5
- Squire Applegate High Organic Nitrogen 10-6-4
- Squire Applegate High Organic Nitrogen Plant Food with Dieltrin 10-6-4
- Squire Applegate Lawn Starter Fertilizer 10-20-20
- Squire Applegate Organic Plant Food 5-4-0
- Squire Applegate Pro-Green Granular 16-8-8
- Squire Applegate Rose Food 5-10-5
- Squire Applegate Sol-U-Green 20-20-20
- Squire Applegate Special Weed 'N' Green Turfood & Weed Control Plus Chickweed Killer
- Squire Applegate Steamed Bone Meal
- Squire Applegate Sulfate of Ammonia
- Squire Applegate Turfood 8-6-4 and Crabgrass Killer with Zytron
- Squire Applegate Weed 'N' Green Turfood and Weed Control

4. ALASKA FERTILIZER CO., 84 Seneca St., Seattle 1, Wash.
Alaska Deodorized Fish Fertilizer

5. ALLIED CHEMICAL CORP., Nitrogen Division, P.O.
Drawer 61, Hopewell, Va.

"Arcadian" Ammonium Sulfate
 "Arcadian" Gold-AN (Pelleted Ammonium Nitrate)
 "Arcadian" Golden Uran 30 Solution
 "Arcadian" Golden Uran 32 Solution
 "Arcadian" Nitrana 3 Solution
 "Arcadian" Nitrate of Soda
 "Arcadian" Poly-N
 "Arcadian" Urea 45 Fertilizer Compound (Pelleted)
 /Solvay Calcined Potassium Carbonate
 USB Standard 62% Muriate of Potash

6. AMERICAN AGRICULTURAL CHEMICAL CO.,
285 River St., North Weymouth 91, Mass.

AA Plant Food 5-10-5
 AA Plant Food 10-6-4
 AA Quality Fertilizer 0-15-30
 /AA Quality Fertilizer 0-20-20
 /AA Quality Fertilizer 5-10-5
 AA Quality Fertilizer 5-10-10 with 1.2 Mg
 AA Quality Fertilizer 8-16-16
 AA Quality Fertilizer 10-10-10
 AA Quality Fertilizer 15-10-10
 /AA Quality Fertilizer Muriate of Potash
 AA Quality Phosphate Rock
 Agrico 1-2-3 Pre-Emergence Insect Control with Fert.
 Agrico A. C. R. Fertilizer
 Agrico Country Club Fertilizer 10-6-4
 Agrico Country Club Fertilizer 12-4-8
 Agrico Country Club Fertilizer 16-8-8
 Agrico Evergreen Fertilizer
 Agrico for Corn
 Agrico for Lawns, Trees and Shrubs
 Agrico for Plowdown
 Agrico for Potatoes
 /Agrico for Top Dressing 10-10-10
 /Agrico for Top Dressing 12-12-12
 /Agrico for Top Dressing 15-15-15
 Agrico Garden and Lawn Fertilizer
 Agrico Grass Food 10-6-4
 Agrico Grass Food 16-8-8
 Agrico Insect Control with Fertilizer
 Agrico Phosphate & Potash
 Agrico Rose Food
 Agrico Weed Control with Fertilizer
 Agrinite Plant Food
 Agri-Phos Superphosphate
 /Homestead All Purpose Fertilizer 8-8-8
 /Homestead Custom Lawn Food 20-10-5
 Homestead Farm Style Fertilizer 5-10-5
 Homestead Farm Style Fertilizer 10-6-4
 /Homestead Weed & Feed Fertilizer 10-6-4

7. AMERICAN CYANAMID CO., P.O.Box 400, Princeton, N. J.
 - Aero Cyanamid Granular - 20.5%
 - Aero Cyanamid Granular - 21.0%
 - Aero-Phos Ammonium Phosphate 11-48-0
 - Aero-Phos Diammonium Phosphate 18-46-0
 - Aero Phosphoric Acid
 - Aeropills Ammonium Nitrate
 - Aero Urea Coated Pills
 - Amanol Nitrogen Solution
 - Trebo-Phos Triple Superphosphate
8. AMERICAN FERTILIZER CO., P.O. Box 6940-A,
Chicago, Illinois
(Registered by International Minerals & Chemical
Corp., P.O. Box 230, Woburn, Mass.)
 - Gold Seal 20-10-5 Lawn Food
 - Top Turf 20-10-5 Lawn Food
9. AMERICAN HUMATES, INC., Fidelity Union Tower,
Dallas, Texas 75201
Aqua Humus
10. ARCHER DANIELS MIDLAND CO., 733 Marquette Ave.,
Minneapolis, Minnesota
 - Osmocote 14-14-14
 - Osmocote 18-9-9
 - Osmocote 36-0-0
11. ARMOUR AGRICULTURAL CHEMICAL CO., P.O. Box 10,
Carteret, New Jersey
 - Armour Armorganic Plant Food
 - Armour Big Crop Fertilizer 0-20-20
 - Armour Big Crop Fertilizer 5-8-7
 - Armour Big Crop Fertilizer 5-10-5
 - Armour Big Crop Fertilizer 5-10-10
 - Armour Big Crop Fertilizer 7-7-7
 - Armour Big Crop Fertilizer 10-10-10
 - Armour Big Crop Superphosphate
 - Armour Bone Meal Fertilizer
 - Armour Cattle Manure 2-1-2
 - Armour Gold Bond Tobacco Grower 6-3-6
 - Armour Home & Garden Special 5-10-5
 - Armour Lawn Special 10-6-4
 - Armour Lightweight Vertagreen 18-6-9 with Magnex
 - Armour Lightweight Vertagreen 20-10-5
 - Armour Sheep Manure 1.25-1.00-2.00
 - Armour Vertagreen for Acid Loving Plants 5-10-10
 - /Armour Vertagreen Double Duty Lawn Treatment 10-6-4
with 2,4-D
 - /Armour Vertagreen Triple Duty Lawn Treatment 10-6-4
 - Armour Vertagreen for Lawns & Gardens
 - Armour Vertagreen Plant Food 5-10-5
 - Armour Vertagreen Plant Food for Commercial Crops

11. ARMOUR AGRICULTURAL CHEMICAL CO., P.O. Box 10,
Carteret, New Jersey - Cont.
Armour Vertagreen Plant Food for Turf & Trees 10-6-4
with Magnex
Armour Vertagreen Rose Food 5-10-5
*Armour Vertagreen Tomato Plant Food 6-12-12
Armour Vertagreen 10-6-4 for Turf (60% Org. Nit.)
Armour Vertagreen Turf Food 10-6-4 with Chlordane
Armour Vertagreen Turf Formula 8-6-2 (60% Org. Nit.)
Garden Mark Lightweight Lawn Food
Vallegreen Lawn Fertilizer 20-10-5
12. ASGROW SEED CO., P.O. Box 406, New Haven, Conn.
Asgrow 10-6-4
Asgrow 3-way with Bandane
Asgrow Easy-Gro Lawn Food
Asgrow Gro-Sod Lawn Food
Asgrow Weed-Nix Lawn Food with 2, 4-D and Silvex
Breck's 10-6-4
Breck's Big-3
Breck's Feed-no-Weed with 2, 4-D
Breck's Garden-Gro
Breck's Greenite
Breck's Turf-Gro
13. ATLANTIC SEED CO., Martinsville, New Jersey
(Registered by Loft's Pedigreed Seed, Inc., Chimney
Rock Road, Bound Brook, New Jersey)
Atlantic's Lightweight Fertilizer
Atlantic's Weed & Feed
14. *ATLAS FISH FERTILIZER CO., 1 Drumm St.,
San Francisco, California
Atlas Fish Emulsion Fertilizer 5-1-1
15. THE F. A. BARTLETT TREE EXPERT CO., 2770 Sum-
mer St., Stamford, Connecticut
Bartlett Green Tree Food
16. /THE BAUGH CHEMICAL CO., 25 S. Calvert St., Bal-
timore, Maryland 21202
Ground Undissolved Phosphate Rock
17. *BLACK MAGIC, INC., Box 578-P, Hermosa Beach, Calif.
Black Magic African Violet Blossom Booster 4-10-10
18. BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave.,
Baltimore, Maryland 21226
Fairlawn Fertilizer 5-10-5
Fairlawn Fertilizer 10-6-4
Fairlawn Fertilizer 25% Org. Nit., 1.5 W.I.N.

18. BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave.,
Baltimore, Maryland 21226 - Cont.
Fairlawn Lawnfood 10-6-4 and Weed Killer
Fairlawn Lawnfood 5% W.I.N.
Fairlawn Lawnfood 100% Nat. Org. Mat.
Lawn Wood Lawnfood & Weed Killer
/Plantation Crabgrass Preventer & Lawn Food 10-6-4
/Plantation Fertilizer 5-10-5
/Plantation Fertilizer 10-6-4
/Plantation Lawnfood 5% W.I.N.
/Plantation Weed Killer & Lawn Food 10-6-4
Ranch Home Fertilizer
/Finelawn 5-10-5 Fertilizer
/Finelawn 5-10-10 Azalea & Camellia Food
/Finelawn 7-10-5 Rose Food
/Finelawn 8-8-8 General Purpose
/Finelawn 10-6-4 3 in 1 Lawn Food
/Finelawn 10-6-4 Weed & Feed Lawn Food
/Finelawn 10-6-4 25% Org. Nit.
/Finelawn 20-10-5 Lawn Food
(Finelawn products were packed for E.J. Korvette, Inc.)
19. BONIDE CHEMICAL CO., INC., 382 N. Genesee St.,
Utica, New York 13502
/Adams Nursery Mart Weed & Feed Granules 17-4-4
/Glen Terrace Nurseries Weed & Feed Granules 17-4-4
/Garden Exchange, Inc. Weed & Feed Granules 17-4-4
/Platt's Weed & Feed Granules 17-4-4
Weed & Feed
20. THE BORDEN CHEMICAL CO., Div., The Borden Co.,
350 Madison Ave., New York, New York 10017
Borden's "38" 38-0-0
21. BOYLE-MIDWAY, INC., 685 Third Ave., N.Y., N.Y. 10017
Heller-Gro 15-15-15 Plant Food
Heller-Gro Makes Lawns Green 32-0-0 Nitrogen Fertilizer
22. BROOKSIDE NURSERIES, INC., 228 Brookside Rd.,
Darien, Conn.
Brookside's Bone Meal
Brookside's Horn Shavings or Meal
Brookside's Nature's Evergreen
Brookside's Nature's Nutrients
Brookside's Nature's Lawn or Thrift
23. W. ATLEE BURPEE CO., 18th & Hunting Park Ave.,
Philadelphia 32, Pennsylvania
Burpee Lawn Food

24. CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.
/Cottonseed Meal - Castor Pomace Mixture (41% Protein)
C & J Hi Organic
C & J Homogeneous Gran. Fertilizer 5-10-5
C & J Homogeneous Gran. Fertilizer 5-10-10
C & J 7500 Lawn Food
C & J Lawn-Weed Killer
C & J Plant Food
CNA 3 in 1 Crabgrass Preventer w/Dacthal & Heptachlor
CNA Turf Food
CNA Weed & Feed
/Fishmeal (product of Peru)
/Triple Superphosphate Granulated 46%
25. CARBOLA CHEMICAL CO., INC., Natural Bridge, N.Y.
Carbola CCC Triple 20 Plant Food
26. /THE CANADA LINSEED OIL MILLS, LTD., 2215 Notre
Dame St., East Montreal 24, Quebec, Canada
Maple Leaf 34% Protein Expeller Linseed Oil Meal
27. PETER CASCIO NURSERY, INC., 2600 Albany Ave.,
West Hartford, Connecticut
Cascio's High Organic 10-6-4 Lawn Food
Cascio's Lawn Food & Weed Killer
Cascio's Organite
Cascio's Professional 5-10-5 Lawn Food
28. *CHEMAGRO CORP., Kansas City 20, Missouri
Scope Systemic 2 in 1 Rose Care
29. CHEVRON CHEMICAL CO., Lucas St. & Ortho Way,
Richmond, California 94804
Ortho Greenol Liquid Iron
Ortho-Gro Liquid Plant Food 12-6-6
*Ortho-Gro Liquid Plant Food 15-5-5
Ortho-Gro Starter Solution 8-16-8
Ortho Liquid Evergreen & Azalea Food 10-8-7
Ortho Liquid Rose Food 8-12-4
Ortho Liquid Tomato Food 6-18-6
Ortho Prilled Ammonium Nitrate Fertilizer 33.5-0-0
Ortho Unipel Fertilizer 10-20-20
Ortho Unipel Fertilizer 16-16-16
Ortho Unipel Fertilizer 20-10-10
Ortho Unipel Fertilizer 22-22-0
Ortho Unipel Starter Special Fertilizer 13-34-10
Ortho Up-Start 5-15-5
30. CHILEAN NITRATE SALES CORP., 120 Broadway, New
York 5, New York
Chilean Nitrate of Soda - Champion Brand
Chilean Nitrate of Soda-Potash - Champion Brand

31. *CLINTON NURSERY PRODUCTS, INC., Clinton, Conn.
New Era African Violet Food 5-12-9
New Era Fish Plant Food 5-5-1
New Era Liquid African Violet Food 6-18-6
New Era Rose Food 10-20-10
32. CLORO-SPRAY CORP., 2215 N. American St.,
Philadelphia 33, Pennsylvania
Cloro-Spray
Fairway-Spray
33. COCKE & CO., 208 William Oliver Bldg., Atlanta, Georgia
Cocke-Sure Brand 41% Protein Cottonseed Meal
34. CONSOLIDATED RENDERING CO., 525 Woburn St.,
Tewksbury, Massachusetts
Corenco 0-15-30
Corenco 0-20-20
Corenco 5-8-7
Corenco 5-10-5
Corenco 5-10-5 Home Garden & Lawn Starter
Corenco 5-10-5 Rose Food
Corenco 5-10-10
Corenco 6-3-6 Perfection
Corenco 6-3-6 Premium
Corenco 6-8-8 with 1.2 Mg
Corenco 7-7-7
Corenco 7-7-7 Rhododendron
Corenco 8-6-2 Landscape
Corenco 8-6-4 Turf Green
Corenco 8-6-4 with Chlordane
Corenco 8-12-12 with 0.9 Mg
Corenco 8-16-16
Corenco 10-5-5 Organo
Corenco 10-6-4 Golf & Lawn
Corenco 10-6-4 Golf & Lawn with Dacthal
Corenco 10-6-4 Pro-Grass
Corenco 10-8-2 Timberline
Corenco 10-10-10
Corenco 15-10-10
/Corenco 15-15-15
Corenco Bone Meal
Corenco Liquid 5-10-10
Corenco Liquid 10-5-5
Corenco Organic Turf
Corenco Sheep Manure with Inert Matter
Corenco 20% Superphosphate
Corenco Weed-B-Done 18-3-5
Dried Blood
/Cottonseed Meal
Muriate of Potash
Sulphate of Ammonia
Triple Superphosphate 45% P_2O_5

35. *CROUCH POTTING SOIL & PRODUCTS CO., RFD 1,
Norwich, Connecticut
Happy Jo Liquid Concentrate Plant Food 8-8-12
36. THE DANBURY GARDEN CENTER, Danbury, Connecticut
Danbury Garden Center Lawn & Tree Food
37. THE DAVEY TREE EXPERT CO., 117S. Water St., Kent, Ohio
Arbor Green 3-1-1
/Arbor Green 4-1-2
Davey-Green
Davey Tree Food
38. /DEANE SEED CO., 304 Main St., Wethersfield, Conn.
Formula 22-35X Lawn Fertilizer 20-10-5
39. DELPHOS SOYA PRODUCTS CO., 234 S. Jefferson St.,
Delphos, Ohio
44% Protein Soybean Meal
40. E.I. DU PONT DE NEMOURS AND CO., 6054 Du Pont
Bldg., Wilmington, Delaware 19898
Du Pont Nu Green Urea Fertilizer 45-0-0
Du Pont Trey Triple Action Lawn Aid 10-5-5
Du Pont Turf Food 20-10-10
Du Pont Turf Food 20-10-10 with 2,4-D
Du Pont Uramite Ureaform Fertilizer 38-0-0
Du Pont Uramite M Ureaform Fertilizer 38-0-0
Du Pont Urea Nitrogen Fertilizer
41. EASTERN DEHYDRATING CO., Route 7, Lexington, N. C.
Fertal-Gro (Dehydrated Cow Manure-tobacco stem bedding)
Fertal-Gro (Dehydrated Sheep Manure-tobacco stem bedding)
/Fertal-Gro 1.5-1-5 Sheep Manure Compost
/Fertal-Gro (T-Mulch Ground Tobacco Stems)
Green Acres (Dehydrated Cow Manure-tobacco stem bedding)
"No-Brand" (Dehydrated Cow Manure-tobacco stem bedding)
42. ELANCO PRODUCTS CO., 740 S. Alabama St., Indianapolis,
Indiana
(HO 70) Greenfield Double Action Rose Food
(HO 62) Greenfield Instant Plant Food
(HO 60) Greenfield Measured Release Lawn Food
(HO 61) Greenfield Measured Release Lawn Food with
Broadleaf Weed Killer
(HO 40) Greenfield Triple Action Crab Grass Killer
(HO 48) Greenfield Double Action Evergreen &
Azalea Food
(HO 49) Greenfield Double Action Plant Food
Greenfield Springtime Triple Action

43. /JOHN W. ESHELMAN & SONS, Lancaster, Pennsylvania
Solvent Extracted 41% Cottonseed Meal
44. THE ESPOMA CO., 6 Espoma Rd., Millville, New Jersey
Bulb-Tone
Espoma Organic
Espoma Rose Food
Garden-Tone
Holly-Tone
Turf-Tone
45. ESTATE FERTILIZER, Division, Morris Karp & Sons,
81 Secatogue Ave., Farmingdale, New York
Estate 5-10-5
Estate 10-6-4
46. EXCEL SEED CO., 5300 Katrine Ave., Downers Grove, Ill.
Excel Lawn Food
47. /LEON EZZELL INC., 1538 Summer St., Stamford, Conn.
Ezzell's Verdo Lawn Food 5-10-5
Ezzell's Verdo Lawn Food 10-6-4 60% Org. Nit.
48. FAESY & BESTHOFF, INC., 143 River Rd., Edgewater, N.J.
F & B Azalea-Camellia-Rhododendron Food 5-10-10
F & B Cottonseed Meal
F & B Evergreen Food 7-7-7
F & B Garden Food
F & B Pure Steamed Bone Meal 1-11.69-0
F & B Rose Food 8-10-4
49. /FARMERS ORGANIC CORP. 2459 Youngstown Rd.,
Ransomville, New York
O'C Brand Dehydrated Cow Manure
50. FARMERS ORGANIC., Linwood, North Carolina
Barnyard Gem 1-1-1 (Dehydrated Cow Manure)
51. /FARMINGDALE GARDEN LABS., INC., 136 Verdi St.,
Farmingdale, New York
Farmingdale Double Action Weed & Feed 20-10-5
Farmingdale High Analysis Turf Food 20-10-5
Farmingdale 3 in 1 Triple Action 10-6-4
52. FEDERAL CHEMICAL CO., 646 Starks Bldg., Louisville, Ky.
Nu-Turf Fertilizer with Insecticide
Nu-Turf Lawn Fertilizer
Nu-Turf Rose Food
Nu-Turf Weed and Feed

53. FEDERAL CHEMICAL CO., Prospect Plains, Cranbury, N. J.
Federal Lawn Life for Gardens 5-10-10
Federal Lawn Life Plant Food 10-6-4
Federal Lawn Life Plant Food 20-10-5
Federal Lawn Life Plant Food Special '75'
Federal Lawn Life Plant Food Premium '150'
Federal Lawn Life Plant Food Superior '300'
Hess Quality Approved Lawn Master Turf Food 10-6-4
Lawn & Garden 5-10-5
Lawn & Garden 10-6-4
Lawn Master All Organic Plant Food 5-4-0
Lawn Master 5-10-5
Lawn Master Turf Food 10-6-4
Lawn Master Turf Food 20-10-5
Lawn Master Turf Food 25% Org. Nit.
Lawn Master Turf Food 50% Org. Nit.
Lawn Master Turf Food 100% Org. Nit.
54. FIRST NATIONAL STORES, INC., East Hartford, Conn.
Emerald Green Lawn Food 12-5-7
Emerald Green Plant Food 8-12-6
55. GPG GRAIN CORP., Box 47, Norwalk, Connecticut
Steamed Bone Meal
56. THE GARDEN EXCHANGE CO., 4244 Madison Ave.,
Trumbull, Connecticut
The Garden Exchange Inc. Lawn Food 10-6-4
57. GEIGY AGRICULTURAL CHEMICALS, Division, Geigy
Chemical Corp., P.O. Box 430, Yonkers, New York
Geigy Sequestrene 138 Fe Iron Chelate
Geigy Sequestrene 330 Fe Iron Chelate
Geigy Sequestrene Na_2Cu Copper Chelate
Geigy Sequestrene NaFe Iron Chelate
Geigy Sequestrene Na_2Mn Manganese Chelate
Geigy Sequestrene Na_2Zn Zinc Chelate
Geigy Sequestrene Zn 45 Chelate Granules
58. GENERAL PRODUCTS OF OHIO, Drew Pearson's Farms,
P.O. Box 3107, Lexington, Ohio
Drew Pearson's Best Composted Cow Manure
Drew Pearson's Best Composted Sheep Manure
Drew Pearson's Best Dehydrated Cow Manure
Drew Pearson's Best Dehydrated Sheep Manure
Village Green Dehydrated Cow Manure
Village Green Dehydrated Sheep Manure
59. GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave.,
Hamden, Connecticut
Glen Terrace Lawn Food 10-6-4

60. GODFREY'S GARDEN SHOP, Post Rd., Fairfield, Conn.
 (Registered by Miller Chemical & Fertilizer Corp.,
 3006 W. Cold Spring Lane, Baltimore, Md. 21215)
 /Godfrey's Lawn & Tree Food 10-5-5
 Godfrey's Professional Lightweight Turf Food 20-6-4
 /Godfrey's Professional Lightweight Turf Food 20-10-5
61. GOLDENROD OIL MEAL SALES CO., 727 Beale St.,
 Memphis, Tennessee
 Goldenrod Brand 41% Protein Cottonseed Meal -
 Prime Quality
62. GOULARD & OLENA, INC., Skillman, New Jersey
 (Registered by Miller Chemical & Fertilizer Corp.,
 3006 W. Cold Spring Lane, Baltimore, Md. 21215)
 G & O Bone Meal 1-11-0
 /G & O Bone Meal 1-23-0
 G & O Bulb Food
 /G & O Composter
 G & O Dried Blood
 G & O Evergreen Food
 G & O Hyganic Lawn Food
 /G & O Lawn, Tree & Shrub Food 10-6-4 (35% Nit. is Org.)
 G & O Plant Food for Acid Loving Plants
 G & O Prime Cottonseed Meal
 G & O Prizegro for Gardens
 G & O Rose Food
 /G & O Super Hyganic Lawn Food 12-6-6
 /G & O Super Hyganic Lawn Food 12-6-6 with crabgrass &
 insect killer
 /G & O Super Hyganic Weed Killer 12-6-6 with 2,4-D
 G & O Tomato & Fruit Food
 /G & O Turf Food & Insecticide 10-6-4 with chlordane
63. /W.R.GRACE & CO., Davison Chemical Division,
 Hill Plant, Baltimore 3, Maryland
 Davco 3-G Granulated Fertilizer 0-15-30
 Davco 3-G Granulated Fertilizer 0-20-20
 Davco 3-G Granulated Fertilizer 5-10-10
 Davco 3-G Granulated Fertilizer 8-16-16
 Davco 3-G Granulated Fertilizer 10-6-4
 Davco 3-G Granulated Fertilizer 10-10-10
 Davco 3-G Granulated Fertilizer 15-10-10
 Davco Granulated 20% Superphosphate
 Garden 5-10-5 Food
64. W.R.Grace & Co., Nitrogen Products Div., P.O. Box 277,
 147 Jefferson Ave., Memphis, Tennessee
 Grace Urea Prills 45%
 Grace Urea Prills 46%
 Grace Urea Crystal 46%

65. THE GRAND UNION CO., 100 Broadway, E. Patterson, N.J.
(Registered by Dayton Fert. Corp., Dayton, N.J.)
Grand Union Brand Lawn & Garden Fertilizer 6-10-4
Grand Union Brand Lawn & Garden Fertilizer 10-6-4
/Grand Union Brand Lightweight Lawn Fert. 15-7-5
Grand Union Brand Lightweight Lawn Fert. 20-10-5
66. THE GREENLIFE PRODUCTS CO., West Point, Virginia
Greenlife Azalea Food
Greenlife Cow Manure
Greenlife Evergreen Food
Greenlife Flower & Vegetable Fertilizer
Greenlife Rose Food
Greenlife Turf & Tree Food
Greenlife Vita Mend
67. GREEN RIBBON PRODUCTS CO., Sackett Point Road,
North Haven, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
/Green Ribbon Formula 25 Lawn Food 10-6-4
Green Ribbon Plant Food
• Green Ribbon Lawn Food
68. GRO FAST FERTILIZER ASSOCIATES, Chamberlain Rd.,
Windsorville, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Gro Fast Lawn Food
Gro Fast Plant Food
69. HALSTEAD DISTRIBUTING CORP., Suttons Lane, Mount
Kisco, New York
Just Right Fertilizer 5-10-5
Just Right Fertilizer 10-6-4
70. *HARRISON SPECIALTY CO., INC., Boston 67, Mass.
Chemton Liquid Plant Food 5-5-5
71. THE CHAS. C. HART SEED CO., 304 Main St.,
Wethersfield, Connecticut
Hart's All Organic Plant Food 5-4-0
Hart's All Purpose Plant Food 5-10-5
Hart's Crabgrass Killer & Lawn Fertilizer
Hart's Lawn Food
Hart's Lawn Weed Killer
Hart's Rose Food
Hart's Turf Food
Hart's Two for One

72. HERCULES POWDER CO., Hercules Tower, 910 Market St., Wilmington, Delaware 19899
Nitroform
73. HERITAGE HOUSE PRODUCTS, INC., 701 S. Front St., Philadelphia, Pennsylvania 19147
Heritage House Evergreen Plant Food
Heritage House Lawn Food
Heritage House Rose Food
Heritage House Three In One
Heritage House Tree and Shrub Food
Heritage House Weed Killer Lawn Food
Seaboard Lawn Builder
Seaboard Weed and Feed
Society Hill Lawn Feeder
74. HERSHEY ESTATES, INC., Hershey, Pennsylvania
Ko-K-O Meal
75. A. H. HOFFMAN, INC., Landisville, Pennsylvania
*Hoffman Azalea & Evergreen Food 4-6-10
*Hoffman Concentrated Organic 6-8-5
Hoffman Cow Manure (Dehydrated)
*Hoffman Fertilizer for Gardens 5-10-10
Hoffman Rose Food
Hoffman Sheep Manure (Dehydrated)
Hoffman Sterilized Bone Meal
Mistress Mary Dehydrated Cow Manure
Mistress Mary Fertilizer for Gardens
Mistress Mary Sterilized Bone Meal
76. HOLDRIDGE FARM NURSERY, Route 27, Ledyard, Conn.
(Registered by Miller Chemical & Fertilizer Corp.
3006 W. Cold Spring Lane, Baltimore 15, Md.)
Holdridge Turf Food 20-10-5
77. /HOOSIER SOIL SERVICE, INC., Bluffton, Indiana
*enVee All Purpose Plant Food 8-8-8
enVee Lightweight Lawn Food 20-10-5
enVee Weed & Feed 10-6-4
Lawn Time Lightweight Lawn Food 20-10-5
*ReVive Evergreen Food 10-5-5
Suburban Pride Complete Lightweight Lawn Food 20-10-5
Suburban Pride Lawn Food with Weed Killer
78. THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St., Waterbury, Connecticut
Bone Meal
Borax, Gran. 8/40 Spec. Mesh, Tech. 99-1/2% pure
Castor Pomace
Cotton Hull Ashes
Di Ammonium Phosphate

78. THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,
Waterbury, Connecticut - Cont.

Dry Ground Fish
HH Blade Lawn Food
HH Bulb Food
HH Composted Cow Manure
HH Composted Sheep Manure
HH Cottonseed Meal
HH Dried Blood
HH Evergreen Food
HH Luxura Lawn Food
HH Muriate of Potash
HH Nitrate of Soda
HH Nitrogenic
HH Nitrogenic with Weed Control, 2, 4-D & Silvex
HH Plant Food
HH Rose Food
HH Turf 'N Tree Food
HH Turf & Tree Food with Insect Control
HH 3 Way Turf 'N Tree Food
/Irsobin Nitrate of Potash (made in West Germany)
Lawncraft 12-4-8
Lawncraft Seed Starter
Lawncraft Tree & Shrub Food
Lawncraft Turf Food 8-6-4
Lawncraft Turf Food 10-5-5
Lawncraft Turf Food 10-6-4
Lawncraft Turf Food with Fish Base
/Lawncraft Turf Food 10-10-10 (25% Org. Nit.)
Lawncraft Turf Food (60% Organic)
Lawncraft VFT Turf Food
Lawncraft VFT Fortified Turf Food
Liberty Fertilizer 0-10-30
Liberty Fertilizer 0-15-30
Liberty Fertilizer 0-20-20
Liberty Fertilizer 0-25-25
Liberty Fertilizer 4-10-0
Liberty Fertilizer 5-8-7
Liberty Fertilizer 5-10-10
Liberty Fertilizer 5-10-10 with 1.2 Mg
Liberty Fertilizer 7-7-7
Liberty Fertilizer 8-16-16
/Liberty Fertilizer 10-6-4
Liberty Fertilizer 10-10-10
/Liberty Fertilizer 10-20-20
Liberty Fertilizer 15-10-10
Liberty Fertilizer 15-15-15
Liberty Fertilizer 16-8-12
Liberty Super Bacco 6-4-7
Liberty Super Corn
Liberty Super Gro
Liberty Super Spud 6-8-8 with 1.2 Mg
Liberty Super Spud 8-10-10 with 1.2 Mg
Liberty Tobacco Fertilizer
Liberty Plant Food

78. THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,
Waterbury, Connecticut - Cont.
Muriate of Potash
Nitrate of Potash
Precipitated Bone
/State of Connecticut 10-6-4 25% Synt. Organic O WION
/Sulphate of Ammonia
Superphosphate, 20%
Superphosphate, 46%
Woodruff's Lawn & Tree Food
/0-20-20 with 20 lbs. Borax per ton
/10-6-4 50% Natural Organic 5.0 WION from Nat. Org.
/10-10-10 with 10 lbs. Borax per ton
/20-6-4 Fertilizer 100% of Nit. is Org.
79. *HYDROPONIC CHEMICAL CO., INC., Copley, Ohio
Hyponex All Purpose Plant Food 7-6-19
80. *THE HY-TROUS CORP., Boston, Massachusetts
Hy-Trous Liquid Fertilizer 4-8-4
81. INTERNATIONAL MINERALS & CHEMICAL CORP.,
5401 Old Orchard Road, Skokie, Illinois
Diammonium Phosphate
Muriate of Potash
Sul-Po-Mag
82. INTERNATIONAL MINERALS & CHEMICAL CORP.,
316 New Boston Street, Woburn, Massachusetts
/Calcium Nitrate (Irsobin) Made in Germany
International - Sulfate of Potash
New Formula Rainbow 5-10-10
New Formula Rainbow 8-10-10
New Formula Rainbow 10-10-10
New Formula Super Rainbow 5-10-30
New Formula Super Rainbow 10-10-10
New Formula Super Rainbow 10-15-15
New Formula Super Rainbow 15-10-10
83. /KAHN BROS. Co., Chicago 9, Illinois
Kay-Bee Pel-Organic Turf Food 5-5-0
84. SPENCER KELLOGG, Division, Textron, Inc., 120 Delaware Ave., Buffalo, New York 14240
Spencer Kellogg's 31% Protein Old Process (Expeller)
Linseed Meal
85. /KENTUCKY VALLEY FARMS, Martinsville, New Jersey
Kentucky Valley's Lightweight Fertilizer for Turf
Kentucky Valley's Weed & Feed

86. /N. S. KOOS & SON CO., 4500 13th Court, Kenosha, Wisconsin
Holiday Flower & Garden Fertilizer 5-10-5
Holiday New 3-Way Lawn Treat 10-6-4
Holiday Weed & Feed 20-10-5
Lawn Aide Lawn Fertilizer 20-10-5
87. LAWN-TEX, INC., 2005 East End Ave., Box 101,
Chicago Heights, Illinois
Organi-Green
88. LEBANON CHEMICAL CORP., P.O.Box 693, Lebanon, Pa.
Lebanon Azalea-Evergreen Food
Lebanon Bone Meal
Lebanon Hi Organic
Lebanon Plant Food
Lebanon Rose Food
Lebanon Turf Organic
Lebanon Uniform
Pennsylvania Dutch Plant Food
89. LEWIS BROTHERS, INC., 810 Silas Deane Highway,
Wethersfield, Connecticut

(Registered by Miller Chemical & Fertilizer Corp.,
3006 W. Cold Spring Lane, Baltimore 15, Maryland)

Lewis Brothers, Inc. Country Club Lawn Food
90. /THE LIBERTY FERTILIZER GROUP, Windsorville, Conn.
Liberty Lawn Food 10-6-4
Liberty Plant Food 5-10-5
91. LOFTS PEDIGREED SEED, INC., Chimney Rock Road,
Bound Brook, New Jersey
Atlantic's Lightweight Fertilizer
Atlantic's Weed & Feed
First Aid Brand Grass Seed & Fertilizer Mixture
Loft's for Turf
Loft's Lightweight Fertilizer
Loft's Weed & Feed
92. LUZERNE FERTILIZER CO., Nescopeck, Pennsylvania
Luzerne 5-10-5
Luzerne 10-6-4
93. McARDLE'S SEED CO., 388 Greenwich Ave., Greenwich,
Connecticut
McArdle's 10-6-4
McArdle's Turf Food
94. /McNAIR FARMS, Laurinburg, North Carolina
McNair's Organure Dehydrated Cow Manure

95. /R.H. MACY & CO., INC., 1314 Broadway, New York, N.Y.
Supre-Macy Turf Food 20-10-5
96. THE MAGOVERN CO., Lawn Acre Rd., Windsor Locks,
Connecticut
(Registered by The Mamlon Co., P.O.Box 3046,
New Haven, Connecticut)
Mag-Gro Fairway Fertilizer
97. THE MAMLON CO., P.O.Box 3046, New Haven, Conn.
Fer-Mel Fairway Turf Food
Fer-Mel General Purpose Plant Food
Fer-Mel P.G. Turf Food
Fer-Mel Premium Lawn Food
Fer-Mel 50 Supreme Lawn Food
Fer-Mel Water Soluble Turf & Tree Food
98. /MISSISSIPPI COTTONSEED PRODUCTS CO., Greenville,
Mississippi
41% Protein Cottonseed Meal
99. /MR. TURF'S, Box 108, Kenosha, Wisconsin
Mr. Turf's Flower & Garden Fertilizer
Mr. Turf's Lawn Fertilizer
Mr. Turf's Weed & Feed
100. MONSANTO CO., 800 N. Lindbergh, St. Louis, Mo. 63166
Ammonium Nitrate
Phosphatic Fertilizer Solution
Urea
101. THE NATURAL DEVELOPMENT CO., Box 215, Bain-
bridge, Pennsylvania 17502
Fertrell Blue Label
Fertrell Gold Label
Fertrell Super
Fertrell Super "N"
/Fertrell 2-2-2
/Longhorn Brand Cattle Manure
/Ramshorn Brand Sheep Manure
102. *NEW PLANT LIFE-Div. of Chas. O. Finley & Co., Inc.,
310 So. Mich. Ave., Chicago 4, Illinois
New Plant Life 2-1-2
103. OLD DEERFIELD FERTILIZER CO., So. Deerfield, Mass.
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Deerfield Lawn Food 10-6-4
/Deerfield Lightweight Lawn Food 20-10-5
Deerfield Plant Food 5-10-5

104. OLD FOX AGRICULTURAL SALES, INC., 66 Valley St.,
East Providence, Rhode Island

Old Fox 0-15-30
/Old Fox 0-20-0
Old Fox 0-20-20
Old Fox 4-16-20
/Old Fox 5-10-10
Old Fox 5-10-10 with 1.2 Mg
Old Fox 6-3-6
Old Fox 6-3-6 with 1.2 Mg
Old Fox 6-8-8 with 1.2 Mg
Old Fox 6-10-10 with 1.2 Mg
Old Fox 7-7-7
Old Fox 8-10-10 with 1.2 Mg
Old Fox 8-16-16
/Old Fox 10-6-4
Old Fox 10-10-10
Old Fox 15-10-10
/Old Fox 15-15-15
/Old Fox 10-20-20
Acid Soil 6-10-6
Bone Meal
/Estate Green Fertilizer 10-6-4
Garden Food 5-10-5
Green Leaf 8-6-4
/Muriate of Potash
No Pest Turf Food 8-6-2
Rose Food 7-8-6
/Sulphate of Ammonia
/Tree Food 10-8-7
Turf Food 8-6-2
Turf Food with Ureaform 10-6-4

105. /OLIN MATHIESON CHEMICAL CORP., P.O. Box 991,
Little Rock, Arkansas

Ammo-Phos Fertilizer with Potash 13-13-13
Mathieson 5-10-5 Pelleted Fertilizer
Olin 5-10-10 Fertilizer
Olin Urea Fertilizer Pelletized 45%

106. ORGANIC COMPOST CORP. OF PENNSYLVANIA,
P.O. Box 70, Oxford, Pennsylvania

Fertie Composted Cow Manure
Fertie Composted Sheep Manure
Fertilife Composted Manure
Gardener's Composted Cow Manure
Gardener's Composted Poultry Manure
Gardener's Composted Sheep Manure
Gardenure Composted Cow Manure
Manure's Best Composted Cow Manure

107. ORGANIC GROWTH PRODUCTS CO., P.O. Box 446,
Farmingdale, New Jersey
Miracle Orga-Vite Lawn Fertilizer
108. LEE PATTEN SEED CO., Purcell Ct., Moonachie, N.J.
Patco's Brand Allganic 4-6-2
Patco's Brand Chek 10-6-4 with Diphenatrile
Patco's Brand Combo 10-6-4 with 2, 4-D plus 2, 4, 5T
Patco's Brand Evergreen Food 10-7-5
Patco's Brand Featherweight 20-10-5
Patco's Brand Lawn Food 9-8-3
Patco's Brand Rose Food 6-9-5
Patco's Brand Shrub Food 7-8-7
Patco's Brand Sod-Maker 10-6-4
109. PAX COMPANY, 580 W. 13th South, Salt Lake City, Utah
Pax Crabgrass Control
110. /PENNSYLVANIA DUTCH FERTILIZER CO., Lebanon, Pa.
Turf Master Emerald 20-10-5
111. PERK-UP PRODUCTS CO., South Deerfield, Mass.
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Perk-Up Lawn Food 10-6-4
Perk-Up Lawn Food 20-10-5
Perk-Up Lawn Food with Crabgrass Preventer
Perk-Up Plant Food
Perk-Up Rose Food
Perk-Up Special Lawn Food 10-6-4 (25% of Nit. is Org.)
112. ROBERT B. PETERS CO., INC., 2833 Pennsylvania St.,
Allentown, Pennsylvania
Peters 20-5-30
Peters Carnation Special 25-5-20
Peters Easter Lily Special 16-4-12
/Peters Fritted Potash
Peters General Purpose 20-20-20
Peters Geranium Special 15-15-15
Peters Maryland Special 25-10-10
/Peters Plant Starter 9-45-15
Peters Pot Mum Special 15-10-30
113. *PLANTABBS CORP., Timonium, Maryland
Hy-Gro Garden & Lawn Food
Plantabbs Liquid Plant Food
114. /PLATT'S GARDEN CENTER, 875 W. Main St., Branford,
Connecticut
Platt's Hi Organic Lawn Fertilizer 10-5-5

115. /FRANK POLICASTRO & SONS, INC., Glenbrook, Conn.
Policastro's Blue Chip Turf & Tree Food 10-5-5
116. PRO HARDWARE, INC., P.O. Box 108, Kenosha, Wisc.
(Registered by N.S. Koos & Son Co., Kenosha, Wisc.)
Proven Brand Lawn Fertilizer
Proven Brand Weed & Feed
117. /PROFESSIONAL TURF PRODUCTS CO., 3 Main Street,
Mount Kisco, New York
Professional Tree & Shrub Food 7-7-7 30% Organic
118. RA-PID-GRO CORP., 88 Ossian St., Dansville, New York
Ra-Pid-Gro
119. RENZULLI BROS. GARDEN CENTER, 297 Westport Ave.,
Norwalk, Connecticut
(Registered by Miller Chemical & Fertilizer Corp.
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
Renzulli Bros. 10-6-4 Lawn Food
120. ROSS DANIELS, INC., 115 S. W. 8th St., Des Moines, Iowa
Ross Plant Food Cartridge 25-10-10 Beautiful Trees
Ross Plant Food Cartridge 10-20-20 Evergreen-Acid
Ross Plant Food Cartridge 5-35-10 Iron Deficiency
Ross Plant Food Cartridge 15-25-10 Prize Rose
Ross Plant Food Cartridge 10-20-10 Regular Diet
Ross Plant Food Cartridge 9-46-15 Starter
121. RUSSELL-JOHNSON CHEMICAL CO., INC., P.O. Box 241,
Wilmington, Massachusetts
Golden Rain
122. S & D PRODUCTS, INC., 216 South Minnesota, Prairie
du Chien, Wisconsin
Eesy Grow 16-8-16
123. O. M. SCOTT & SONS CO., Marysville, Ohio
Bonus
Dawn
Halts Plus
ProTurf Fertilizer
ProTurf Fertilizer with Dicot Weed Control
ProTurf Nitrogen Fertilizer
Turf Builder
Turf Builder Plus 1
Turf Builder Plus 2
Turf Builder Plus 4

124. SEARS, ROEBUCK & CO., 925 S. Homan Ave, Dept. 671,
Chicago, Illinois 60607
Sears All Organic Lawn Food
Sears Azalea-Camellia Food
Sears Bone Meal
Sears Bulb Food
Sears Composted Cow Manure
Sears Composted Sheep Manure
Sears Crabgrass Plant Killer in Organic Lawn Food
Sears Economy Fertilizer
Sears Evergreen Food
Sears Green Karpet Lawn Food
Sears Hi-Organic
Sears Lawn Quick Green
Sears Plant Food
Sears Pre-Emerge Crab Grass Killer & Fertilizer with
Grub Control
Sears Rose Food
Sears Sulfate of Ammonia
Sears Superfine Lawn Food
Sears Weed Killer in Organic Lawn Food
125. SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE,
P.O. Box 2079, Milwaukee 1, Wisconsin
Milorganite
126. THE SHERWIN-WILLIAMS CO., 101 Prospect Ave.,
N.W., Cleveland, Ohio
Sherwin-Williams 32% Linseed Meal (Solvent Extracted)
Sherwin-Williams 34% Linseed Meal (Solvent Extracted)
127. SOUTHERN COTTON OIL, Division, Hunt Foods & Indus-
tries, Inc., Box 646, Macon, Georgia 31202
Sco-Co Brand 41% Protein Cottonseed Meal
128. /SOUTHWEST POTASH CORP., New York, New York
High K Nitrate of Potash
129. *THE SPECIALTY MFG. CO., St. Paul 14, Minnesota
Specialty All Purpose 10-20-10 Food Pellets
130. *SPECIALTY PRODUCTS CO., Latty, Ohio
Capri Bonemeal
131. SPECIALTY PRODUCTS, Division, Davison Chemical Co.,
101 N. Charles St., Baltimore 3, Maryland
Magamp
Magamp with K

132. STERN'S GARDEN PRODUCTS, INC., 404 William St.,
Geneva, New York
Miracid
Miracle-Gro
Miracle-Gro for Roses 14-28-18
Miracle-Gro for Roses 18-24-16
133. STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood
St., Columbus, Ohio
Stim-U-Plant 5-8-7
Stim-U-Plant 11-12-15
134. STOKLE, INC., Kennett Square, Pennsylvania
(Registered by Organic Compost Corp. of Pa., P.O.
Box 70, Oxford, Pennsylvania)
Farmyard Gold Composted Cow Manure
Farmyard Gold Composted Sheep Manure
135. SWIFT & CO., AgriChem Div., Box 1404, New Haven, Ct.
All Purpose Vigoro
Golden Vigoro
Golden Vigoro with End-O-Pest
Golden Vigoro Triple Acting Crabgrass Control
Instant Vigoro
Liquid Vigoro for African Violets
Liquid Vigoro for House Plants
Par Ex
Pink Vigoro
Swift's Bone Meal 1-23
Swift's Bone Meal 2.47-23
Bigoro Azalea & Camellia Food
Vigoro Evergreen Food with 0.15% Iron
Vigoro Fish Emulsion
Vigoro Lawn Weeder & Feeder
Vigoro Rose Food
Vigoro Turf Food for Professionals
Vitogro Azalea & Camellia Food
Vitogro Evergreen Food with 0.15% Iron
Vitogro Garden Grower
Vitogro for Grass
Vitogro Lawn Pest Control plus Plant Food
Vitogro Lawn Weeder & Feeder
Vitogro Professional Lawn & Turf Grower
Vitogro Rose Food
Vitogro Triple Acting Crabgrass Control
/Swift's Cottonseed Meal 41% Protein-Prime Quality
136. SWISS FARMS, INC., Box J, Philmont, New York
African Violet Food
Fish Emulsion Fertilizer
Plantdrops (Liquid)
Plant Food

136. SWISS FARMS, INC., Box J, Philmont, New York-Cont.
Plant Food (Liquid)
Rose Food
*Swiss Farms Cow Manure 2-1-1
137. /THOMASON RANCH, Division, Thomason Industries, Inc.,
Fayetteville, North Carolina
Our Ranch Dehydrated Cow Manure
138. /UNIVERSAL CHEMICAL CO., INC., West Lynn, Mass.
Electra Plant Food 5-10-3
139. UNITED STATES STELL CORP., 525 William Penn Place,
Pittsburgh, Pennsylvania
USS Ammonium Sulfate
140. VALLEY FEED & SUPPLY CO., INC., Union Road,
Spring Valley, New York
Adorna 3-1-1
Adorna Azalea Food 6-10-5
Adorna Tree Food 8-7-7
141. /VALU-GRO CORP., Box 21, Princeton, New Jersey
Union 5-10-5 Fertilizer
Valu-Gro 5-10-5
Valu-Gro 10-6-4
142. VAUGHAN'S SEED COMPANY, 5300 Katrine Ave.,
Downers Grove, Illinois
Four Way
Feeder Weeder
One Shot
Turf Food
143. WALKER-GORDON LABORATORY CO., Plainsboro, N. J.
Bovert
Bovung
144. WARREN'S TURF NURSERY, 8400 W. 111th St., Palos
Park, Illinois
Warren's Lawn Food
145. WESTERN AUTO SUPPLY CO., Kansas City, Missouri
(Registered by Federal Chemical Co., 646 Starks
Bldg., Louisville, Kentucky 40202)
Western Auto Revelation Lawn Fertilizer
Western Auto Revelation Weed & Feed with 2, 4-D

146. GARFIELD WILLIAMSON, INC., 1072 West Side Ave.,
Jersey City 6, New Jersey
Plantspur
Wonderlawn All-In-One (100 Organic Nitrogen)
Wonderlawn Lawn Food
Wonderlawn Turf Culture Lawn Food
147. ANDREW WILSON, INC., Baltusrol Way, Springfield, N.J.
Wilson's Eureka Plant Food
Wilson's Special Lawn Food
148. S.D. WOODRUFF & SONS OF WETHERSFIELD, INC.,
304 Main St., Wethersfield, Connecticut
Woodruff's Tuf Turf Turf Food 10-6-4
Woodruff's Tuf Turf Turf Food 25-10-5

GRADES OF FERTILIZER USED IN CONNECTICUT

The Connecticut fertilizer law does not provide for compulsory limitation of the grades that may be sold in this State. Nevertheless (until recently, at least) there has been general agreement that a small number of grades can take care of all of the needs of agriculture, and that standardization on a few grades will promote economy of manufacture, with the consequent possibility of lower prices. In contrast to this, the last few years have seen the rise in some States of so-called bulk blending plants which mix fertilizer ingredients to the order of individual farmers according to proportions determined by soil analyses. Whether this type of custom mixing will spread in Connecticut with its smaller farms remains to be seen.

To promote grade standardization the New England agronomists have from time to time compiled lists of recommended fertilizer ratios and minimum grades. The last such list, which was drawn up at a meeting in Burlington, Vermont on June 19, 1961, was as follows:

<u>Ratio</u>	<u>Most Common Grade</u>
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12- 6
2-1-1	10- 5- 5
2-1-2	6- 3- 6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6- 8- 8
4-2-3	16- 8-12
4-3-1	8- 6- 2

Seventy-six per cent of the mixed fertilizers sold in this State during the 1964-1965 season were of the recommended ratios in grades whose plant food content equalled or exceeded the specified "most common grades". Three other grades, each of which sold over a thousand tons (5-10-5, 8-10-10 and 23-7-7), accounted for another 11 per cent. The numerous additional grades accounted for only 14 per cent of the total tonnage. This tonnage was less than that for the 1964 season by 6,249.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples was 702.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1964 and June 30, 1965:

TONNAGES OF FERTILIZER MATERIALS AND MIXED
FERTILIZERS PURCHASED DURING THE PERIOD OF
JULY 1, 1964 - JUNE 30, 1965

	No. of Samples	Tonnage	
I. Containing chiefly nitrogen:			
Nitrate of ammonia	5	363	
Nitrate of soda	3	265	
Sulphate of ammonia	5	18	
Calcium Nitrate	1	--	
Cyanamid	2	217	
Urea	10	467	
Nitrogen solutions	-	746	
Castor pomace	3	393	
Cottonseed meal	46	2,956	
Linseed meal	9	281	
Soybean meal	3	355	
Dried blood	2	3	
Horn and hoof meal	1	8	
Other materials	5	142	
			6,214
II. Containing chiefly phosphoric acid:			
Superphosphate 18%	-	2	
20%	10	2,810	
46%	10	359	
Dicalcium phosphate	4	---	
Phosphate rock	1	65	
Precipitated bone	2	114	
			3,350
III. Containing chiefly potash:			
Carbonate of potash	2	---	
Muriate of potash	6	227	
Sulphate of potash	3	3	
Sulphate of potash-magnesia	1	-	
Cotton hull ashes	6	188	
			418
IV. Containing nitrogen and phosphoric acid:			
Bone meal	20	290	
Diammonium phosphate	2	14	
Dry ground fish	7	10	
Other materials	-	1,090	
			1,404
V. Containing nitrogen and potash:			
Nitrate of potash	8	63	
Nitrate of potash-soda	1	17	
			80
VI. Mixed fertilizers:			
Commercial mixtures	563	52,209	
Special and home mixtures	47	9,188	
			67,397
VII. Miscellaneous:			
Aluminum sulphate	1	9	
Borax	1	13	
Fritted iron preparations	-	2	
Sheep and cattle manure	34	1,821	
Limestone and similar materials	12	--	
Other miscellaneous materials	17	--	
Check meals and fertilizers	26	--	
			1,845
Totals	879		74,708

MIXED FERTILIZER DISTRIBUTION

Grades approved for Connecticut

<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>
0-10-30	1,576	10-20-20	1,005
0-15-30	1,085	12-12-12	3
0-20-20	286	13-13-13	10
0-25-25	134	14-14-14	1
5-10-10	4,738	15-10-10	7,098
6- 3- 6	2,100	15-15-15	1,587
6- 8- 8	3,601	16- 8- 8	781
6-12-12	63	16- 8-12	144
8- 6- 2	699	16-16-16	20
8-12-12	101	18-18-18	5
8-16-16	1,046	20-10-10	120
10- 5- 5	1,037	20-20-20	21
10-10-10	12,075	24-12-12	40
10-15-15	160		
		Total	39,536

Other Grades
(50 tons or more)

3- 1- 1	61	7- 7- 7	599
3- 2- 1	85	8- 6- 4	928
4- 6- 4	52	8-10-10	1,690
4-10- 4	95	9- 5- 3	111
4-16-20	180	12- 4- 8	127
5- 4- 0	452	12- 5- 7	535
5- 8- 7	196	20- 5- 5	148
5-10- 5	2,019	20-10- 5	492
6- 4- 7	54	20-12- 8	268
6- 8- 6	482	22- 8- 4	171
6-10- 4	348	23- 7- 7	1,878
6-10-10	555	25-12-10	278
6-12- 4	181		
		Total	11,985

(Less than 50 tons)

2- 1- 2	15	10- 8- 8	22
4- 4- 4	23	10-20-10	49
4- 8- 5	23	11- 4- 6	15
4-10- 0	30	12- 4- 4	27
5- 4- 4	18	16- 8- 4	12
5- 5- 0	10	17- 4- 4	11
6- 6- 8	23	18- 6- 9	32
6- 7- 4	12	20-10- 8	21
7-10- 5	39	23-19-17	22
8- 8- 8	23	24- 6- 6	17
8-12- 6	13	25-10- 5	46
8-16- 8	15	Other grades	160
10- 8- 2	10		
		Total	688
		Grand total	52,209

COMPLIANCE WITH GUARANTIES

The table in Circular 228 was designed to indicate at a quick glance the relative performances of the various manufacturers by two bases of measurement: (1) The total numbers of deficiencies found in their samples; and (2), the extent (expressed as percentage) to which their products offered more or less fertilizer value than was claimed, when allowance was made for the offsetting of an excess of one major element by a deficiency in another. This table gives no actual analytical figures, and does not indicate the specific brands and grades in which the summarized deficiencies occurred. Such a table probably offers a means of comparison that is both simpler and fairer than the summaries and table-underlinings of previous years. It is however wholly derivative, and does not supply the data for checking its conclusions. Partly to furnish these missing data, and partly just to supply information on the composition of specific brands, analyses of the actual official samples with their indicated deficiencies are given in Tables 1 to 6 of the present bulletin. Comments on these tables follow:

I. Materials Chiefly Valuable for Nitrogen

Analyses of 71 official samples of nitrogenous materials are given in Table 1. Fifty-nine of these met their guaranties and 12 were deficient. The substandard samples included 9 of cottonseed meal, two of ammonium nitrate and one of "Cascio's Organite."

II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of eight official samples of 20 per cent superphosphate and five of the 46 per cent grade, four of dicalcium phosphate, and one of phosphate rock, are given in Table 2. Of the total of 18 samples, 14 met their guaranties; three 46 per cent, and one 20 per cent, superphosphates were deficient.

III. Materials Chiefly Valuable for Potash

Six samples of muriate of potash, two of sulphate of potash, and one each of carbonate of potash, sulphate of potash-magnesia, fritted potash and cotton hull ashes, were analyzed with results as shown in Table 3. Nine samples were passed; one sample each of carbonate of potash, muriate of potash and sulphate of potash was deficient.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. For natural products such as these, guaranties of total instead of "available" phosphoric acid are permissible. Eighteen official samples of bone meal, four of dry ground fish and two of diammonium phosphate, were analyzed in 1965 with results as shown in Table 4. All samples were passed with the exception of one of diammonium phosphate that was low in nitrogen.

V. Materials Supplying Nitrogen and Potash

Four samples of nitrate of potash and one of mixed potassium and sodium nitrates were analyzed; all of the nitrate of potash samples met their guaranties, while the potassium-sodium nitrate mixture was deficient in potash. Analyses are given in Table 3.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 538 official samples of mixed fertilizers are given in Table 5. This table includes both samples taken from larger bags and small-package material. The samples have been grouped so as to place together all samples of each grade ratio.

Results of these analyses are summarized as follows:

Total number of samples		538
Samples deficient in:		
one item	165	
two items	40	205
Percentage of samples meeting all guaranties		62
Total guaranties made ¹		1,592
Guaranties not met:		
nitrogen	90	
phosphoric acid	130	
potash	16	236
Percentage of guaranties met		85

Thirty-two samples guaranteed magnesium (mostly 1.2 per cent) in addition to the major components; all were passed. Eighteen samples declared between 0.01 and 0.50 per cent of iron: there was no actual deficiency, but the proportion of iron present was usually many times the guaranty. Seventeen samples claimed between 0.00 and 0.45 per cent (mostly 0.02 per cent) of boron; all guaranties were met. One sample listed 2.75 per cent of sulphur. In addition, there were multi-minor-element fractional percentage guaranties as follows (one sample each): boron, copper, iron and zinc; boron, iron and zinc; boron and iron; iron and sulphur; iron and zinc. All of these samples were passed.

VII. Miscellaneous

Sheep and Cattle Manures

Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash. Of the 32 official samples analyzed during the 1964-1965 season, 27 met all guaranties, two each were low in nitrogen and phosphoric acid respectively, and one was deficient in both these components. Analyses are given in Table 6.

¹ Five hundred and sixteen samples with three guaranties and 22 with two guaranties (minor element guaranties not included).

Limestone and Similar Materials

The Connecticut Fertilizer Law specifically excludes "marl and lime" from its jurisdiction, but the Station occasionally analyzes samples of limestone, hydrated lime and gypsum submitted by farmers or state or Federal agencies. Twelve such samples received in 1965 are reported in Table 7.

Other Miscellaneous Materials

Analyses of 17 unofficial samples of miscellaneous materials of possible or suspected fertilizer value are given in Table 8. This table also includes one official sample each of aluminum sulphate and borax.

Recent field experiments conducted by the University of Connecticut have indicated that the proportion of the available phosphoric acid in potato fertilizers that is present in water-soluble form is a significant factor in determining the yield of potatoes on land to which such fertilizers have been applied. At the request of Dr. Arthur Hawkins of the University, all of this year's official samples of the 5-10-10, 6-8-8, 8-12-12 and 10-10-10 grades were analyzed for water-soluble phosphoric acid in addition to running the usual total and citrate-insoluble determinations. The results so obtained are reproduced in Table 9 for the inspection of potato growers and others interested in this breakdown. (It should be noted that all samples in this table are also listed in Table 5.)

The usual collaboration with check analyses programs was continued. Samples analyzed included 16 vegetable meal samples received from the American Oil Chemists' Society, and 10 check fertilizers supplied by the National Plant Food Institute.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
NITRATE OF AMMONIA			
4984 ¹	Aeroprills. American Cyanamid Co., Princeton, N. J. Sampled at Conn. Reformatory, Cheshire.	33.52	33.50
5242	Aeroprills. American Cyanamid Co., Princeton, N. J. Sampled at New Haven Rendering Co., West Haven.	<u>33.12</u>	33.50
5471	Agway 33 1/2 N. Agway, Inc., Syra- cuse, N. Y. Sampled at Agway, Inc., Buckland.	<u>32.16</u>	33.50
4809	Arcadian Gold-AN Pelleted. Allied Chemical Corp., Nitrogen Div., Hopewell, Va. Sampled at Agway, Inc., Willimantic.	33.80	33.50
5022	Arcadian Gold-AN Pelleted. Allied Chemical Corp., Nitrogen Div., Hopewell, Va. Sampled at Southbury Training School, Southbury.	33.66	33.50
NITRATE OF SODA			
4742 ²	Chilean Champion Brand. Chilean Ni- trate Sales Corp., New York, N. Y. Sampled at The Hartman Tobacco Co., Bloomfield.	16.04	16.00
4802 ³	Chilean Champion Brand. Chilean Ni- trate Sales Corp., New York, N. Y. Sampled at American Sumatra To- bacco Corp., Bloomfield.	16.04	16.00
5025 ^{1,4}	Chilean Champion Brand. Chilean Ni- trate Sales Corp., New York, N. Y. Sampled at Southbury Training School, Southbury.	16.08	16.08

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.<sup>2</sup> Sodium: Guaranteed, 26.00%; found, 26.48%.<sup>3</sup> Sodium: Guaranteed, 26.00%; found, 26.38%.<sup>4</sup> Sodium: Guaranteed, 26.00%; found, 26.12%.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No.      | Manufacturer or jobber and dealer                                                                                                        | Per cent<br>nitrogen |       |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
|                     |                                                                                                                                          | F                    | G     |
| SULPHATE OF AMMONIA |                                                                                                                                          |                      |       |
| 5760                | Consolidated Rendering Co., Boston,<br>Mass. Sampled at Springfield Ren-<br>dering Co., Chicopee, Mass.                                  | 21.04                | 20.50 |
| 5124                | Eastern States. Agway, Inc., Syra-<br>cuse, N.Y. Sampled at Agway, Inc.,<br>Putnam.                                                      | 20.80                | 20.50 |
| 5875*               | A.H.Hoffman, Inc., Landisville, Pa.<br>Sampled at Walter W. Simmons &<br>Son, Inc., Granby.                                              | 20.80                | 20.00 |
| 5942/               | The Hubbard-Hall Chemical Co.,<br>Waterbury, Conn. Sampled at<br>Hubbard-Hall Chemical Co.,<br>Portland.                                 | 20.90                | 20.00 |
| 5221/               | Old Fox Agricultural Sales, Inc.<br>East Providence, R.I. Sampled at<br>Old Fox Agricultural Sales, Inc.,<br>Hazardville.                | 21.42                | ..... |
| CYANAMID            |                                                                                                                                          |                      |       |
| 5779                | Aero Granular. American Cyanamid<br>Co., Princeton, N.J. Sampled at<br>Hubbard-Hall Chemical Co., Wind-<br>sorville.                     | 20.96                | 20.50 |
| 5472                | Aero Special Grade. American Cyana-<br>mid Co., Princeton, N.J. Sampled<br>at Agway, Inc., Buckland.                                     | 22.00                | 21.00 |
| UREA                |                                                                                                                                          |                      |       |
| 5299 <sup>1</sup>   | Aero Urea Coated Prills. American<br>Cyanamid Co., Princeton, N.J. Sam-<br>pled at State Highway Dept., Portland.                        | 45.44                | 45.00 |
| 5552                | Arcadian Urea 45 Fertilizer (Pelleted).<br>Allied Chemical Corp., Nitrogen Div.,<br>Hopewell, Va. Sampled at Agway,<br>Inc., Torrington. | 45.76                | 45.00 |

\* Small package sample.

/ Unregistered.

<sup>1</sup> State purchase.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No.    | Manufacturer or jobber and dealer                                                                                                                       | Per cent<br>nitrogen |       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
|                   |                                                                                                                                                         | F                    | G     |
| 5241              | DuPont Nu Green Urea Fertilizer.<br>E. I. Du Pont de Nemours & Co., Wil-<br>mington, Del. Sampled at New Haven<br>Rendering Co., West Haven.            | 46.08                | 45.00 |
| 5297 <sup>1</sup> | Du Pont Nu Green Urea Fertilizer.<br>E. I. Du Pont de Nemours & Co., Wil-<br>mington, Del. Sampled at State<br>Highway Dept., Portland.                 | 46.20                | 45.00 |
| 5661              | Du Pont Uramite Ureaform Fertilizer.<br>E. I. Du Pont de Nemours & Co., Wil-<br>mington, Del. Sampled at Hubbard-<br>Hall Chemical Co., Portland.       | 38.00                | 38.00 |
| 5665              | Du Pont Uramite M Ureaform Fertilizer.<br>E. I. Du Pont de Nemours & Co.,<br>Wilmington, Del. Sampled at The<br>Mamlon Co., Orange.                     | 38.56                | 38.00 |
| 5696              | Grace Urea Prills. W. R. Grace & Co.,<br>Nitrogen Products Div., Memphis,<br>Tenn. Sampled at Checkerboard Feed<br>Store, New Milford.                  | 45.36                | 45.00 |
| 5859/             | Olin Urea Fertilizer (Pelleted). Olin<br>Mathieson Chem. Corp., Agr. Div.,<br>Little Rock, Ark., Sampled at Old Fox<br>Agricultural Sales, Hazardville. | 45.04                | 45.00 |

## CASTOR POMACE

|      |                                                                                                                               |      |       |
|------|-------------------------------------------------------------------------------------------------------------------------------|------|-------|
| 4751 | Baker's Castor Pomace. Baker Cas-<br>tor Oil Co., Bayonne, N. J. Sampled<br>at American Sumatra Tobacco Corp.,<br>Bloomfield. | 5.92 | ..... |
| 4752 | Baker's Castor Pomace. Baker Cas-<br>tor Oil Co., Bayonne, N. J. Sampled<br>at American Sumatra Tobacco Corp.,<br>Bloomfield. | 5.24 | ..... |
| 4805 | Baker's Castor Pomace. Baker Cas-<br>tor Oil Co., Bayonne, N. J. Sampled<br>American Sumatra Tobacco Corp.,<br>Bloomfield.    | 5.68 | ..... |

<sup>1</sup> State purchase.

/ Unregistered.



TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No.  | Manufacturer or jobber and dealer                                                                                | Per cent<br>nitrogen |      |
|-----------------|------------------------------------------------------------------------------------------------------------------|----------------------|------|
|                 |                                                                                                                  | F                    | G    |
| COTTONSEED MEAL |                                                                                                                  |                      |      |
| 4720/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at General<br>Cigar Co., Inc., Simsbury.          | 7.00                 | 6.56 |
| 4724/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at General<br>Cigar Co., Inc., Simsbury.          | 6.76                 | 6.56 |
| 4726/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at General<br>Cigar Co., Inc., Simsbury.          | 6.84                 | 6.56 |
| 4727/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at General<br>Cigar Co., Inc., Simsbury.          | 6.80                 | 6.56 |
| 4745/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at Hart-<br>man Tobacco Co., Bloomfield.          | 6.76                 | 6.56 |
| 4747/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at Hart-<br>man Tobacco Co., Bloomfield.          | 6.88                 | 6.56 |
| 4748/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at Hart-<br>man Tobacco Co., Bloomfield.          | 6.56                 | 6.56 |
| 4749/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at Hart-<br>man Tobacco Co., Bloomfield.          | 6.56                 | 6.56 |
| 4750/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at Hart-<br>man Tobacco Co., Bloomfield.          | 6.52                 | 6.56 |
| 4803/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at American<br>Sumatra Tobacco Corp., Bloomfield. | 6.56                 | 6.56 |
| 4804/           | 41% Protein. Cadwell & Jones, Inc.,<br>Hartford, Conn. Sampled at American<br>Sumatra Tobacco Corp., Bloomfield. | 6.72                 | 6.56 |

/ Unregistered.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No.    | Manufacturer or jobber and dealer                                                                                    | Per cent<br>nitrogen |      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|----------------------|------|
|                   |                                                                                                                      | F                    | G    |
| 4714              | Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway-Steane Corp., West Suffield.                           | 6.56                 | 6.56 |
| 4715              | Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway-Steane Corp., West Suffield.                           | 6.56                 | 6.56 |
| 4716              | Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway-Steane Corp., West Suffield.                           | 6.66                 | 6.56 |
| 4970/             | Consolidated Rendering Co., Boston, Mass. Sampled at Comstock Ferre & Co., Wethersfield.                             | 6.08                 | 6.00 |
| 5490/             | Solvent Extracted 41%. John W. Eshelman & Sons, Lancaster, Penna. Sampled at Belmont Feed Co., Cos Cob.              | <u>5.80</u>          | 6.56 |
| 5386              | G & O Prime. Goulard & Olen, Inc., Skillman, N.J. Sampled at The Garden Center, Inc., W. Hartford.                   | 6.44                 | 6.00 |
| 4972 <sup>5</sup> | Faesy & Besthoff, Inc., Edgewater, N.J. Sampled at Comstock Ferre & Co., Wethersfield.                               | 6.72                 | 6.00 |
| 5721              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Gardener's Center, Inc., Darien.                      | 6.48                 | 6.00 |
| 4703              | 41% Protein. Mississippi Cottonseed Products Co., Greenville, Miss. Sampled at Hatheway-Steane Corp., West Suffield. | <u>6.24</u>          | 6.56 |
| 4710              | 41% Protein. Mississippi Cottonseed Products Co., Greenville, Miss. Sampled at Hatheway-Steane Corp., West Suffield. | <u>6.16</u>          | 6.56 |

~~~~~ Indicates deficiencies.

/ Unregistered.

⁵ "Available" phosphoric acid:Guaranteed, 1.00%; found, 2.83%.
Potash: Guaranteed, 1.00%; found, 2.17%.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|------------------|--|----------------------|------|
| | | F | G |
| 4711 | 41% Protein. Mississippi Cottonseed Products Co., Greenville, Miss. Sampled at Hatheway-Steane Corp., West Suffield. | <u>6.24</u> | 6.56 |
| 4712 | 41% Protein. Mississippi Cottonseed Products Co., Greenville, Miss. Sampled at Hatheway-Steane Corp., West Suffield. | <u>6.44</u> | 6.56 |
| 4708 | Sco-Co Brand 41%. Southern Cotton Oil Div., Hunt Foods & Industries, Inc., Rocky Mount, N. C. Sampled at Hatheway & Steane Corp., West Suffield. | <u>5.48</u> | 6.56 |
| 4709 | Sco-Co Brand 41%. Southern Cotton Oil Div., Hunt Foods & Industries, Inc., Rocky Mount, N. C. Sampled at Hatheway-Steane Corp., West Suffield. | <u>6.12</u> | 6.56 |
| 5611 | Sco-Co Brand 41%. Southern Cotton Oil Div., Hunt Foods & Industries, Inc., Rocky Mount, N. C. Sampled at A. N. Pierson, Inc., Cromwell. | <u>6.10</u> | 6.56 |
| 5477/ | 41% Prime Quality. Swift & Co., Chicago, Ill. Sampled at McArdle's Seed Co., Greenwich. | <u>6.16</u> | 6.56 |
| LINSEED OIL MEAL | | | |
| 4701/ | Maple Leaf 34% Protein Expeller. Canada Linseed Oil Mills Ltd., Montreal, Canada. Sampled at Hatheway-Steane Corp., West Suffield. | 5.96 | 5.44 |
| 4705/ | Mample Leaf 34% Protein Expeller. Canada Linseed Oil Mills Ltd., Montreal, Canada. Sampled at Hatheway Steane Corp., West Suffield. | 5.56 | 5.44 |
| 4707/ | Maple Leaf 34% Protein Expeller. Canada Linseed Oil Mills Ltd., Montreal, Canada. Sampled at Hatheway-Steane Corp., West Suffield. | 5.60 | 5.44 |

 Indicates deficiencies.

/ Unregistered.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|-------------------|---|----------------------|-------|
| | | F | G |
| 4733 [/] | 32%. Consolidated Storage, Inc., Gunterville, Ala. Sampled at General Cigar Co., Inc., Granby. | 5.12 | 5.12 |
| 4730 | 32% (Solvent Extracted). Sherwin-Williams Co., Cleveland, Ohio. Sampled at General Cigar Co., Inc., Simsbury. | 5.32 | 5.30 |
| 4719 ⁶ | 32% (Solvent Extracted). Sherwin-Williams Co., Cleveland, Ohio. Sampled at General Cigar Co., Inc., Simsbury. | 5.32 | 5.30 |
| SOYBEAN MEAL | | | |
| 4729 | 44% Protein Solvent Extracted. Delphos Soya Products Co., Delphos, Ohio. Sampled at General Cigar Co., Inc., Simsbury. | 7.28 | 7.04 |
| 4734 | 44% Protein Solvent Extracted. Delphos Soya Products Co., Delphos, Ohio. Sampled at General Cigar Co., Inc., Simsbury. | 7.04 | 7.04 |
| 4741 | 44% Protein Solvent Extracted. Delphos Soya Products Co., Delphos, Ohio. Sampled at Hartman Tobacco Corp., Bloomfield. | 7.48 | 7.04 |
| MISCELLANEOUS | | | |
| 5009 | Agrinite Plant Food. American Agricultural Chemical Co., N.Y., N.Y. Sampled at Louis Perillo Coal Co., Inc., Southington. | 7.72 | 7.00 |
| 5605 | Brookside's Horn Meal. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien. | 14.96 | 14.00 |
| 5877 | Cascio's Organite. Peter Cascio Nursery, Inc., West Hartford, Conn. Sampled at Peter Cascio Nursery, Inc., West Hartford. | <u>6.80</u> | 7.00 |

~~~~~ Indicates deficiencies.

/ Unregistered.

<sup>6</sup> Potash: Guaranteed, 1.00%; found, 1.61%.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer                                                                                                                | Per cent<br>nitrogen |       |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
|                |                                                                                                                                                  | F                    | G     |
| 5610           | Calcium Nitrate (Irsobin) Made in West Germany. International Minerals & Chemical Corp., Woburn, Mass. Sampled at A. N. Pierson, Inc., Cromwell. | 14.56                | ..... |
| 5761           | Dried Blood. Consolidated Rendering Co., Boston, Mass. Sampled at Springfield Rendering Co., Chicopee, Mass.                                     | 12.24                | 12.00 |
| 5560*          | Dried Blood. Goulard & Olena, Inc., Skillman, N. J. Sampled at Leon Ezzell, Inc., Stamford.                                                      | 12.24                | 10.00 |
| 5355*          | First Aid Brand Grass Seed & Fertilizer Mixture. Loft's Pedigreed Seed, Inc., Bound Brook, N. J. Sampled at Drazen Lumber Co., North Haven.      | 3.36                 | 1.00  |
| 5658           | Nitroform. Hercules Powder Co., Inc., Wilmington, Del. Sampled at Hubbard-Hall Chemical Co., Portland.                                           | 38.08                | 38.00 |
| 5199           | Scott's Bonus. O. M. Scott & Sons, Co., Marysville, Ohio. Sampled at Libner Grain Co., Inc., Norwalk.                                            | 25.44                | 25.00 |

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\* Small package sample.



## TABLE 2.

## ANALYSES OF SUPERPHOSPHATE, ETC.

| Station<br>No.        | Manufacturer or jobber and dealer                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>SUPERPHOSPHATE</b> |                                                                                                                                 |
| 5207 <sup>1</sup>     | Agri-Phos. American Agricultural Chemical Co., New York, N.Y. Sampled at Conn. State Prison, Hazardville.                       |
| 5340                  | Agri-Phos. American Agricultural Chemical Co., New York, N.Y. Sampled at Fairfield Hills Hospital, Newtown.                     |
| 5133                  | Agway 20. Agway, Inc., Syracuse, New York. Sampled at Agway, Inc., Putnam.                                                      |
| 5251 <sup>1</sup>     | Corenco. Consolidated Rendering Co., Boston, Mass. Sampled at Conn. State Farm for Women, Niantic.                              |
| 4897                  | Davco Granulated. W. R. Grace & Co., Davison Chemical Division, Baltimore, Md. Sampled at Checkerboard Feed Store, Willimantic. |
| 5874                  | Eastern States. Agway, Inc., Syracuse, New York. Sampled at Walter W. Simmons & Son, Inc., Granby.                              |
| 5280 <sup>1</sup>     | Eastern States Triple. Agway, Inc., Syracuse, New York. Sampled at University of Connecticut, Storrs.                           |
| 5943                  | Granular Triple. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hubbard-Hall Chemical Co., Portland.                |
| 5780                  | Liberty. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hubbard-Hall Chemical Co., Windsorville.                    |
| 5224                  | Old Fox Agricultural Sales, Inc., East Providence, R.I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.               |
| 4735                  | Triple Granulated. Cadwell & Jones, Inc., Hartford, Conn. Sampled at Hartman Tobacco Co., Bloomfield.                           |

<sup>1</sup> State purchase.

TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Citrate<br>insoluble | Total | Per cent phosphoric acid |       |
|----------------------|-------|--------------------------|-------|
|                      |       | "Available"              |       |
|                      |       | F                        | G     |
| 0.14                 | 20.14 | 20.00                    | 20.00 |
| 0.33                 | 20.49 | 20.16                    | 20.00 |
| 1.59                 | 21.45 | 19.86                    | 20.00 |
| 0.09                 | 20.65 | 20.56                    | 20.00 |
| 1.62                 | 21.25 | <u>19.63</u>             | 20.00 |
| 1.21                 | 21.39 | 20.18                    | 20.00 |
| 0.37                 | 47.75 | 47.38                    | 46.00 |
| 0.39                 | 45.57 | <u>45.18</u>             | 46.00 |
| 0.06                 | 20.96 | 20.90                    | 20.00 |
| 0.33                 | 20.82 | 20.49                    | 20.00 |
| 0.91                 | 47.56 | 46.65                    | 46.00 |

~~~~~ Indicates deficiencies.

TABLE 2.

ANALYSES OF SUPERPHOSPHATE, ETC.

| Station
No. | Manufacturer or jobber and dealer |
|----------------------|---|
| 4722/ | Triple Superphosphate. Consolidated Rendering Co.,
Boston, Mass. Sampled at General Cigar Co., Inc.
Simsbury. |
| 5298/ ¹ | Triple Superphosphate. Consolidated Rendering Co.,
Boston, Mass. Sampled at State Highway Dept., Portland. |
| DI-CALCIUM PHOSPHATE | |
| | |
| | |
| | |
| | |
| 4704 | Eastman Gelatine Corp., Peabody, Mass. Sampled at
Hatheway-Steane Corp., West Suffield. |
| 4721 | Eastman Gelatine Corp., Peabody, Mass. Sampled at Gen-
eral Cigar Co., Inc., Simsbury. |
| 4731 | Eastman Gelatine Corp., Peabody, Mass. Sampled at Gen-
eral Cigar Co., Inc., Granby. |
| 4806 | Eastman Gelatine Corp., Peabody, Mass. Sampled at Gen-
eral Cigar Co., Inc., Granby. |
| PHOSPHATE ROCK | |
| | |
| 5650 | Ground Undissolved. Baugh & Sons Co., Baltimore, Md.
Sampled at Hubbard-Hall Chemical Co., Portland. |

¹ State purchase.

/ Unregistered.

TABLE 2.

ANALYSES OF SUPERPHOSPHATE, ETC.

| Citrate
insoluble | Total | Per cent phosphoric acid | |
|----------------------|-------|--------------------------|-------|
| | | "Available" | |
| | | F | G |
| 0.84 | 45.61 | <u>44.77</u> | 46.00 |
| 0.79 | 45.00 | <u>44.21</u> | 46.00 |
| .... | .... | 42.22 | 41.78 |
| .... | .... | 42.47 | 41.78 |
| .... | .... | 42.84 | 41.78 |
| .... | .... | 41.71 | 41.78 |
| .... | .... | 34.46 | 33.50 |

~~~~~ Indicates deficiencies.

TABLE 3.  
ANALYSES OF POTASH SALTS, ETC.

| Manufacturer or jobber and dealer                                                                                      | Per cent<br>potash |       |
|------------------------------------------------------------------------------------------------------------------------|--------------------|-------|
|                                                                                                                        | F                  | G     |
| FRITTED POTASH                                                                                                         |                    |       |
| 5572 Robert B. Peters Co., Inc., Allentown,<br>Penna. Sampled at Hubbard-Hall<br>Chemical Co., Portland.               | 15.64              | 15.00 |
| CARBONATE OF POTASH                                                                                                    |                    |       |
| 4744/ Solvay Calcined. Allied Chemical Co.,<br>N. Y., N. Y. Sampled at Hartman<br>Tobacco Co., Bloomfield.             | <u>63.56</u>       | 67.47 |
| MURIATE OF POTASH                                                                                                      |                    |       |
| 5725/ American Agricultural Chemical Co.,<br>Carteret, N. J. Sampled at Gar-<br>dener's Center, Inc., Darien.          | 60.50              | 60.00 |
| 5284 <sup>1</sup> Eastern States. Agway, Inc., Syra-<br>cuse, N. Y. Sampled at Univ. of<br>Connecticut, Storrs.        | 60.28              | 60.00 |
| 5208 <sup>1</sup> Hubbard-Hall Chemical Co., Water-<br>bury, Conn. Sampled at Conn. State<br>Prison, Hazardville.      | 60.28              | 60.00 |
| 5777 Hubbard-Hall Chemical Co., Water-<br>bury, Conn. Sampled at Hubbard-<br>Hall Chemical Co., Windsorville.          | 60.56              | 60.00 |
| 5468 International Minerals & Chemical<br>Corp., Canada, Ltd., Ontario, Cana-<br>da. Sampled at Agway, Inc., Buckland. | 61.16              | 60.00 |
| 5771 Old Fox Agricultural Sales, Inc., East<br>Providence, R. I. Sampled at Leland<br>R. Hawthorne, Hazardville.       | <u>58.56</u>       | 60.00 |
| NITRATE OF POTASH                                                                                                      |                    |       |
| 4723/ Southwest Potash Corp., N. Y., N. Y.<br>Sampled at General Cigar Co., Inc.,<br>Simsbury.                         | 44.28              | 44.00 |
| 4718/ Southwest Potash Corp., N. Y., N. Y.<br>Sampled at Hatheway-Steane Corp.,<br>West Suffield.                      | 45.72              | 44.00 |

~~~~~ Indicates deficiencies.

/ Unregistered.

¹ State purchase.

TABLE 3.

ANALYSES OF POTASH SALTS, ETC.

| Station
No. | Manufacturer or jobber and dealer | Per cent
potash | |
|-----------------------------|---|--------------------|-------|
| | | F | G |
| 5609/ | Southwest Potash Corp., N. Y., N. Y.
Sampled at A. N. Pierson, Inc.,
Cromwell. | 44.10 | 44.00 |
| 4717/ | Irsobin (Made in W. Germany). Hub-
bard-Hall Chemical Co., Waterbury,
Conn. Sampled at Hatheway-Steane
Corp., West Suffield. | 47.24 | 44.00 |
| NITRATE OF SODA-POTASH | | | |
| 5776 | Chilean Nitrate Sales Corp., N. Y.,
N. Y. Sampled at Hubbard-Hall Chem-
ical Co., Windsorville. | <u>13.53</u> | 14.00 |
| SULPHATE OF POTASH | | | |
| 5473/ | Agway, Inc., Syracuse, N. Y. Sam-
pled at Agway, Inc., Buckland. | 52.06 | 52.00 |
| 4743 | International Minerals & Chemical
Corp., Skokie, Ill. Sampled at
Hartman Tobacco Co., Bloomfield. | <u>23.60</u> | 50.00 |
| SULPHATE OF POTASH-MAGNESIA | | | |
| 4736 | Sul-Po-Mag. International Minerals &
Chemical Corp., Skokie, Ill. Sampled
at Hartman Tobacco Corp., Bloom-
field. | 50.92 | 21.00 |
| COTTON HULL ASHES | | | |
| 5606 | Hubbard-Hall Chemical Co., Water-
bury, Conn. Sampled at Brookside
Nurseries, Inc., Darien. | 27.62 | |

~~~~~ Indicates deficiencies.

/ Unregistered.

TABLE 4.  
ANALYSES OF GROUND FISH, BONE, ETC.

| Station<br>No.  | Manufacturer of jobber and dealer                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------|
| DRY GROUND FISH |                                                                                                   |
| 4702            | Hubbard-Hall Chemical Co., Waterbury, Conn.<br>Sampled at Hatheway & Steane Corp., West Suffield. |
| 4728            | Consorcio Pesquero, Peru, S.A. Sampled at General<br>Cigar Co., Inc., Farm 1, Simsbury.           |
| 4732            | Consorcio Pesquero, Peru, S.A. Sampled at General<br>Cigar Co., Inc., Farm 3, Granby.             |
| 4737            | Consorcio Pesquero, Peru, S.A. Sampled at Hartman<br>Tobacco Co., Bloomfield.                     |

BONE MEAL

|                   |                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------|
| 4989              | Armour Agricultural Chemical Co., Atlanta, Ga.<br>Sampled at G. E. Madison, Southington.            |
| 4960              | Baugh Chemical Co., Philadelphia, Pa. Sampled at<br>A. S. Labieniec, Kensington.                    |
| 5604              | Brookside, Nurseries, Inc., Darien, Conn. Sampled<br>at Brookside Nurseries, Inc., Darien.          |
| 4946/             | Comark Corp., Ithaca, N. Y. Sampled at Agway, Inc.,<br>Kensington.                                  |
| 4948              | Comark Corp., Ithaca, N. Y. Sampled at Agway, Inc.,<br>Kensington.                                  |
| 5134*             | Comark Corp., Ithaca, N. Y. Sampled at Agway, Inc.,<br>Putnam.                                      |
| 4862              | Consolidated Rendering Co., Boston, Mass. Sampled<br>at Wolf Savitsky & Sons, Inc., Shelton.        |
| 5285 <sup>1</sup> | Consolidated Rendering Co., Boston, Mass. Sampled<br>at Mansfield State Training School, Mansfield. |
| 5766              | Consolidated Rendering Co., Boston, Mass. Sampled<br>at Thompsonville Garden Center, Thompsonville. |

/ Unregistered.

<sup>1</sup> State purchase.

\* Small package sample.

TABLE 4.  
ANALYSES OF GROUND FISH, BONE, ETC.

| Total Nitrogen<br>(Per cent) |       | Total Phosphoric Acid<br>(Per cent) |       | Mechanical analysis<br>(Per cent) |        |
|------------------------------|-------|-------------------------------------|-------|-----------------------------------|--------|
| F                            | G     | F                                   | G     | Fine                              | Course |
| 10.72                        | 10.00 | 5.48                                | 5.00  |                                   |        |
| 10.64                        | ..... | 6.57                                | ....  |                                   |        |
| 10.72                        | ..... | 6.39                                | ....  |                                   |        |
| 11.00                        | ..... | 6.07                                | ....  |                                   |        |
| 2.76                         | 2.30  | 25.36                               | 23.00 | 50.0                              | 50.0   |
| 1.52                         | 1.00  | 32.58                               | 30.00 | 60.0                              | 40.0   |
| ....                         | ....  | 32.22                               | 30.00 | 52.0                              | 48.0   |
| 2.96                         | 2.30  | 24.42                               | 24.00 | 49.0                              | 51.0   |
| 2.32                         | 1.00  | 28.86 <sup>2</sup>                  | 23.00 | 70.0                              | 30.0   |
| 2.12                         | 1.00  | 28.52 <sup>3</sup>                  | 24.00 | ....                              | ....   |
| 1.44                         | 1.00  | 32.10                               | 23.00 | 55.0                              | 45.0   |
| 1.24                         | 1.00  | 30.62                               | 23.00 | 77.0                              | 23.0   |
| 2.08                         | 2.00  | 26.94                               | 22.00 | 62.0                              | 38.0   |

<sup>2</sup>"Available" phosphoric acid: Guaranteed, 11.00%; found, 15.77%.

<sup>3</sup>"Available" phosphoric acid: Guaranteed, 12.00%; found, 15.42%.

TABLE 4.

## ANALYSES OF GROUND FISH, BONE, ETC.

| Station<br>No. | Manufacturer or jobber and dealer                                                              |
|----------------|------------------------------------------------------------------------------------------------|
| 4915           | Faesy & Besthoff, Inc., Edgewater, N.J. Sampled at Fonicello's Home & Garden Center, Guilford. |
| 5192           | GPG Grain Corp., Norwalk, Conn. Sampled at Libner Grain Co., Inc., Norwalk.                    |
| 5176           | Goulard & Olena, Inc., Skillman, New Jersey. Sampled at East Hartford Nursery, East Hartford.  |
| 5747           | Goulard & Olena, Inc., Skillman, New Jersey. Sampled at Renzulli Bros. Garden Center, Norwalk. |
| 4937           | A.H. Hoffman, Inc., Landisville, Penna. Sampled at Barker's Discount Store, Meriden.           |
| 5724           | Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Gardener's Center, Inc., Darien.    |
| 5266*          | Specialty Products Co., Latty, Ohio. Sampled at Orbit Dept. Store, Groton.                     |
| 4954*          | Swift & Co., New Haven, Conn. Sampled at King's Dept. Store, Meriden.                          |
| 5804           | Swift & Co., New Haven, Conn. Sampled at Stratford Town Fair, Inc., Stratford.                 |

## DIAMMONIUM PHOSPHATE

|      |                                                                                             |
|------|---------------------------------------------------------------------------------------------|
| 5648 | Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hubbard-Hall Chemical Co., Portland. |
| 5666 | International Minerals & Chemical Corp., Skokie, Ill. Sampled at The Mamlon Co., Orange.    |

\* Small package sample.

~~~~~ Indicates deficiencies.

⁴ "Available" phosphoric acid:Guaranteed, 11.69%; found, 18.70%.

⁵ "Available" phosphoric acid:Guaranteed, 11.00%; found, 20.24%.

TABLE 4.
ANALYSES OF GROUND FISH, BONE, ETC.

| Total Nitrogen
(Per cent) | | Total Phosphoric Acid
(Per cent) | | Mechanical analyses
(Per cent) | |
|------------------------------|-------|-------------------------------------|-------|-----------------------------------|--------|
| F | G | F | G | Fine | Course |
| 2.48 | 2.47 | 29.21 ⁴ | 23.00 | 56.0 | 44.0 |
| 1.92 | 1.50 | 29.22 | 27.00 | 68.0 | 32.0 |
| 1.44 | 1.00 | 31.94 ⁵ | 22.00 | 54.0 | 46.0 |
| .... | .... | 31.54 | 23.00 | 52.0 | 48.0 |
| 2.36 | 2.00 | 27.66 ⁶ | 22.00 | 60.0 | 40.0 |
| 1.43 | 1.00 | 30.56 | 30.00 | 50.0 | 50.0 |
| 2.24 | 2.00 | 29.50 ⁷ | ..... | 75.0 | 25.0 |
| 2.84 | 2.47 | 24.68 | 23.00 | 52.0 | 48.0 |
| 1.00 | 1.00 | 32.82 ⁸ | 23.00 | 48.0 | 52.0 |
| <u>17.76</u> | 18.00 | 44.05 ⁹ | ..... | .... | .... |
| 18.88 | 18.00 | 47.64 ¹⁰ | ..... | .... | .... |

⁶ "Available" phosphoric acid: Guaranteed, 11.00%; found, 16.98%.

⁷ "Available" phosphoric acid: Guaranteed, 15.00%; found, 17.01%.

⁸ "Available" phosphoric acid: Guaranteed, 11.69%; found, 17.90%.

⁹ "Available" phosphoric acid: Guaranteed, 46.00%; found, 44.03%.

¹⁰ "Available" phosphoric acid: Guaranteed, 46.00%; found, 47.60%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|----------------------|------------------------|---|
| | <u>0- 1- 1</u> | |
| 5540 [/] | 0-20-20 | AA Quality Fertilizer |
| 5709 | 0-20-20 | Corenco Fertilizer |
| 4825 ^{/1 2} | 0-20-20 | Corenco Fertilizer (20 lbs. Borax/ton) |
| 5694 [/] | 0-20-20 | Davco 3-G Granulated Fertilizer |
| 5607 ¹ | 0-20-20 | Hubbard-Hall (20lbs. Borax/ton) |
| 5219 [/] | 0-20-20 | Old Fox Fertilizer |
| 5544 | 0-25-25 | Eastern States Fertilizer |
| | <u>0- 1- 2</u> | |
| 5697 | 0-15-30 | AA Quality Fertilizer |
| 5283 ^{1 3} | 0-15-30 | AA Quality Fertilizer (20 lbs. Borax/ton) |
| 5236 | 0-15-30 | Corenco Fertilizer |
| 5024 ^{1 4} | 0-15-30 | Corenco Fertilizer (20 lbs. Borax/ton) |
| 5533 [/] | 0-15-30 | Davco 3-G Granulated Fertilizer |
| 5938 | 0-15-30 | Liberty Fertilizer |
| 5338 ⁵ | 0-15-30 | Liberty Fertilizer (Custom Mixed w. Borax) |
| 5855 | 0-15-30 | Old Fox Fertilizer |
| | <u>0- 1- 3</u> | |
| 5542 | 0-10-30 | Agrico Phosphate & Potash |
| 5178 ⁶ | 0-10-30 | Agway Free Flow |
| 5934 | 0-10-30 | Liberty Fertilizer |
| | <u>1- 1- 0</u> | |
| 5827 | 5- 5- 0 | Armour Armorganic Plant Food |
| 4863 | 5- 5- 0 | Corenco Organic Turf Fertilizer |
| 5238 [/] | 5- 5- 0 | Kay-Bee Pel-Organic Turf Food |
| 4976 | 5- 5- 0 | Organi-Green |
| | <u>1- 1- 1</u> | |
| 5807 [/] | 2- 2- 2 | Fertrell |
| 5598 | 4- 4- 4 | Brookside's Nature's Lawn Food |
| 4885 [*] | 5- 5- 5 | Chemton Liquid Plant Food |
| 4918 | 7- 7- 7 | Corenco Fertilizer |
| 5240 | 7- 7- 7 | Corenco Rhododendron, Azalea & Blueberry
Special |
| 5390 [*] | 7- 7- 7 | Hart's Rose Food |
| 5387 ⁷ | 7- 7- 7 | Lebanon Rose Food |
| 5936 | 7- 7- 7 | Liberty Fertilizer |

* Small package sample. [/] Unregistered.

² Boron: Guaranteed, 0.11%; found, 0.095%.

³ Boron: Guaranteed, 0.11%; found, 0.22%.

⁴ Boron: Guaranteed, 0.11%; found, 0.089%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 6 | .... | .... | .... | 19.37 | 18.18 | .... |
| 34 | .... | .... | .... | <u>19.13</u> | 20.02 | .... |
| 34 | .... | .... | .... | <u>17.23</u> | 30.56 | .... |
| 63 | .... | .... | .... | <u>23.32</u> | 20.40 | .... |
| 78 | .... | .... | .... | <u>18.09</u> | 20.64 | .... |
| 104 | .... | .... | .... | <u>16.69</u> | 21.52 | .... |
| 3 | .... | .... | .... | 25.28 | 25.24 | .... |
| 6 | .... | .... | .... | 16.09 | 29.70 | .... |
| 6 | .... | .... | .... | 14.81 | <u>29.17</u> | .... |
| 34 | .... | .... | .... | 17.47 | <u>28.92</u> | .... |
| 34 | .... | .... | .... | 17.08 | <u>30.10</u> | .... |
| 63 | .... | .... | .... | 16.42 | <u>25.80</u> | .... |
| 78 | .... | .... | .... | <u>10.30</u> | 37.14 | .... |
| 78 | .... | .... | .... | <u>14.18</u> | <u>28.52</u> | .... |
| 104 | .... | .... | .... | <u>13.37</u> | <u>28.00</u> | .... |
| 6 | .... | .... | .... | 10.19 | 27.60 | .... |
| 3 | .... | .... | .... | 10.40 | <u>29.45</u> | .... |
| 78 | .... | .... | .... | 9.99 | 30.70 | .... |
| 11 | 0.24 | 4.88 | 5.12 | 5.91 | ..... | .... |
| 34 | 0.32 | 4.76 | 5.08 | 6.25 | ..... | .... |
| 83 | 0.40 | 4.52 | 5.08 | 4.84 | ..... | .... |
| 87 | 0.16 | 5.10 | 7.88 | 7.09 | ..... | .... |
| 101 | 0.38 | 1.02 | <u>1.40</u> | <u>0.95</u> | 2.05 | .... |
| 22 | 0.40 | 3.96 | <u>4.36</u> | <u>5.18</u> | 4.05 | .... |
| 70 | 3.84 | 0.00 | 5.04 | 5.00 | 5.13 | .... |
| 34 | 0.48 | 0.00 | 7.44 | 7.76 | 8.12 | .... |
| 34 | 0.16 | 0.12 | 7.52 | 7.26 | 7.18 | .... |
| 71 | 1.04 | 1.56 | 7.48 | 7.04 | 7.81 | .... |
| 88 | 0.58 | 2.90 | 7.48 | 7.44 | 6.20 | .... |
| 78 | 1.48 | 0.00 | 7.16 | 7.35 | 7.46 | .... |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.<sup>5</sup> Boron: Guaranteed, 0.00%; found, 0.11%.<sup>6</sup> Boron: Guaranteed, 0.45%; found, 0.52%.<sup>7</sup> Iron: Guaranteed, 0.075%; found, 2.09%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station No.                    | Ratio, grade and brand                                            |
|--------------------------------|-------------------------------------------------------------------|
| 5142                           | 7- 7- 7 Old Fox Fertilizer                                        |
| 5726 <del>/</del>              | 7- 7- 7 Professional Tree & Shrub Food (30% Organic)              |
| 5012                           | 8- 8- 8 Agrico Rose Food                                          |
| 5596                           | 8- 8- 8 Brookside's Nature's Nutrients                            |
| 5267*                          | 8- 8- 8 EnVee All Purpose Plant Food                              |
| 5147 <del>/</del>              | 8- 8- 8 Finelawn General Purpose                                  |
| 5491                           | 8- 8- 8 Greenlife Rose Food                                       |
| 5716 <del>/</del>              | 8- 8- 8 Homestead All Purpose Fertilizer                          |
| 5011                           | 10-10-10 AA Quality Fertilizer                                    |
| 5495 <del>/</del>              | 10-10-10 Agrico for Top Dressing                                  |
| 4945 <sup>8</sup>              | 10-10-10 Agway Free Flow                                          |
| 4810                           | 10-10-10 Agway Granular Fertilizer with 0.6 Mg                    |
| 4971                           | 10-10-10 Corenco Fertilizer                                       |
| 5534 <del>/</del>              | 10-10-10 Davco 3-G Granulated Fertilizer                          |
| 5608 <del>/</del> <sup>1</sup> | 10-10-10 Hubbard-Hall (10 lbs. Borax/ton)                         |
| 5935 <del>/</del>              | 10-10-10 Lawn Craft Turf Food (25% St. Org.)                      |
| 4824 <sup>1</sup>              | 10-10-10 Liberty Fertilizer                                       |
| 5122 <sup>1</sup>              | 10-10-10 Liberty Fertilizer                                       |
| 5139                           | 10-10-10 Liberty Fertilizer                                       |
| 5252 <sup>1</sup>              | 10-10-10 Liberty Fertilizer                                       |
| 5305                           | 10-10-10 Liberty Fertilizer                                       |
| 4993                           | 10-10-10 Liberty Fertilizer contains Aldrin                       |
| 5286 <sup>1</sup>              | 10-10-10 Liberty Fertilizer (Custom Mixed w. Borax)               |
| 5339                           | 10-10-10 Liberty Fertilizer (Custom Mixed w. Borax)               |
| 5140 <del>/</del>              | 10-10-10 New Formula Rainbow Premium Plant Food with 1.8 Mg       |
| 5137                           | 10-10-10 New Formula Super Rainbow Premium Plant Food with 2.4 Mg |
| 5135                           | 10-10-10 Old Fox Fertilizer                                       |
| 5719*                          | 10-10-10 Plantabbs Liquid Plant Food                              |
| 5539 <del>/</del>              | 12-12-12 Agrico Top Dressing                                      |
| 5466 <del>/</del>              | 12-12-12 Eastern States LC with 1.2 Mg                            |
| 5561 <del>/</del>              | 13-13-13 Ammo-Phos Fertilizer with Potash                         |
| 5494 <del>/</del>              | 15-15-15 Agrico for Top Dressing                                  |
| 5206 <sup>19</sup>             | 15-15-15 Agway Ferti Flow                                         |
| 5250 <sup>110</sup>            | 15-15-15 Agway Ferti Flow                                         |
| 5279 <sup>111</sup>            | 15-15-15 Agway Ferti Flow                                         |
| 5551 <sup>12</sup>             | 15-15-15 Agway Ferti Flow                                         |
| 5708 <del>/</del>              | 15-15-15 Corenco Fertilizer                                       |
| 5519                           | 15-15-15 Liberty Fertilizer                                       |
| 5857 <del>/</del>              | 15-15-15 Old Fox Fertilizer                                       |
| 5571                           | 15-15-15 Peter's Geranium Special                                 |
| 5570                           | 18-18-18 Fer Mel General Purpose Plant Food                       |

\* Small package sample. ~~/~~ Unregistered.

<sup>8</sup> Boron: Guaranteed, 0.02%; found, 0.018%.

<sup>9</sup> Boron: Guaranteed, 0.02%; found, 0.024%.

<sup>10</sup> Boron: Guaranteed, 0.02%; found, 0.25%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 104         | 0.16                            | 0.00   | 7.08                          | 7.46                                        | 7.31                                    | ....                  |
| 117         | 1.76                            | 0.88   | 7.44                          | 7.79                                        | 7.42                                    | ....                  |
| 6           | 1.44                            | 1.04   | 8.72                          | <u>7.37</u>                                 | 9.54                                    | ....                  |
| 22          | 1.78                            | 6.26   | 8.92                          | 10.35                                       | <u>7.75</u>                             | ....                  |
| 77          | 4.40                            | 0.00   | 8.00                          | <u>6.82</u>                                 | 8.48                                    | ....                  |
| 18          | 0.10                            | 0.18   | <u>5.88</u>                   | 9.19                                        | 9.39                                    | ....                  |
| 66          | 5.32                            | 1.16   | <u>8.80</u>                   | 7.98                                        | 9.37                                    | ....                  |
| 6           | 1.24                            | 1.24   | 8.08                          | <u>7.21</u>                                 | 8.26                                    | ....                  |
| 6           | 0.40                            | 0.24   | 10.24                         | 10.28                                       | 11.38                                   | ....                  |
| 6           | 3.20                            | 0.16   | 10.00                         | 9.85                                        | 10.02                                   | ....                  |
| 3           | 0.72                            | 0.14   | 10.32                         | 10.20                                       | 10.32                                   | ....                  |
| 3           | 0.56                            | 0.12   | 10.16                         | 10.38                                       | 10.41                                   | 0.99                  |
| 34          | 0.40                            | 0.00   | 10.00                         | 10.16                                       | 12.78                                   | ....                  |
| 63          | 0.40                            | 0.00   | 10.32                         | <u>9.71</u>                                 | 10.12                                   | ....                  |
| 78          | 2.90                            | 0.14   | 10.88                         | <u>9.73</u>                                 | <u>9.15</u>                             | ....                  |
| 78          | 2.72                            | 0.14   | 10.94                         | 10.12                                       | 9.60                                    | ....                  |
| 78          | 0.32                            | 0.00   | 10.00                         | <u>9.68</u>                                 | 11.36                                   | ....                  |
| 78          | 0.08                            | 0.00   | <u>9.60</u>                   | 10.06                                       | 11.29                                   | ....                  |
| 78          | 0.08                            | 0.00   | 10.00                         | <u>9.59</u>                                 | 11.87                                   | ....                  |
| 78          | 0.48                            | 0.10   | 10.00                         | <u>10.15</u>                                | 10.09                                   | ....                  |
| 78          | 0.72                            | 0.00   | <u>9.20</u>                   | 10.44                                       | 10.09                                   | ....                  |
| 78          | 3.50                            | 0.18   | <u>10.16</u>                  | <u>9.18</u>                                 | 12.85                                   | ....                  |
| 78          | 0.16                            | 0.00   | 10.00                         | <u>9.56</u>                                 | 10.76                                   | ....                  |
| 78          | 0.32                            | 0.00   | <u>9.20</u>                   | 10.06                                       | 11.10                                   | ....                  |
| 82          | 0.08                            | 0.10   | <u>9.36</u>                   | 10.23                                       | 11.22                                   | 2.16                  |
| 82          | 0.16                            | 0.10   | 10.08                         | <u>9.45</u>                                 | 10.02                                   | 2.76                  |
| 104         | ....                            | 0.00   | <u>9.60</u>                   | <u>10.03</u>                                | 10.67                                   | ....                  |
| 113         | 10.96                           | 0.00   | 10.96                         | 10.60                                       | 10.17                                   | ....                  |
| 6           | 0.32                            | 0.10   | 12.00                         | 12.22                                       | 12.44                                   | ....                  |
| 3           | 0.48                            | 0.00   | 12.00                         | 12.46                                       | 12.30                                   | 1.52                  |
| 105         | 0.16                            | 0.00   | 13.44                         | <u>12.74</u>                                | 13.67                                   | ....                  |
| 6           | 2.88                            | 0.10   | 15.04                         | <u>14.36</u>                                | 15.32                                   | ....                  |
| 3           | 0.40                            | 0.00   | 15.12                         | <u>14.43</u>                                | 15.12                                   | ....                  |
| 3           | 0.22                            | 0.00   | 15.04                         | <u>13.62</u>                                | 15.66                                   | ....                  |
| 3           | 0.56                            | 0.00   | 15.20                         | <u>14.72</u>                                | 15.30                                   | ....                  |
| 3           | 0.00                            | 0.00   | 15.28                         | 15.05                                       | 15.32                                   | ....                  |
| 34          | 0.80                            | 0.00   | <u>14.08</u>                  | <u>13.57</u>                                | 16.74                                   | ....                  |
| 78          | 0.24                            | 0.14   | <u>14.80</u>                  | <u>11.12</u>                                | 15.40                                   | ....                  |
| 104         | 0.00                            | 0.00   | <u>14.64</u>                  | <u>13.92</u>                                | 15.10                                   | ....                  |
| 112         | 4.96                            | 0.00   | <u>16.88</u>                  | <u>16.82</u>                                | 15.69                                   | ....                  |
| 97          | 9.52                            | 0.00   | 19.12                         | 19.29                                       | 18.74                                   | ....                  |

~~~~~ Indicates deficiencies.

¹ State purchase.

¹¹ Boron: Guaranteed, 0.02%; found, 0.026%.

¹² Boron: Guaranteed, 0.02%; found, 0.018%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|---------------------|------------------------|---|
| 5303* | 20-20-20 | Cross Country Instant Plant Food |
| 4929* ¹³ | 20-20-20 | Greenfield Instant Plant Food |
| 5567 | 20-20-20 | Peters General Purpose |
| | <u>1- 2- 1</u> | |
| 4953* | 4- 8- 4 | Hy-Trous Liquid Fertilizer |
| 5493 | 5-10- 5 | AA Plant Food |
| 5478/ | 5-10- 5 | AA Quality Fertilizer |
| 4950 | 5-10- 5 | Armour Home & Garden Special |
| 5825 | 5-10- 5 | Armour Vertagreen for Lawn & Gardens |
| 5812 | 5-10- 5 | Armour Vertagreen Rose Food |
| 5183/ | 5-10- 5 | Blue Ribbon Lawn & Garden Fertilizer |
| 5526 | 5-10- 5 | C & J Homogeneous Granulated Fertilizer |
| 5524 | 5-10- 5 | C & J Plant Food |
| 5879 | 5-10- 5 | Cascio's Professional Lawn Food |
| 4860 | 5-10- 5 | Corenco Fertilizer |
| 5662 | 5-10- 5 | Corenco Home Garden & Lawn Starter |
| 4861* | 5-10- 5 | Corenco Rose Food |
| 5710 | 5-10- 5 | Corenco Rose Food |
| 5643 | 5-10- 5 | Deerfield Plant Food |
| 5558/ | 5-10- 5 | Ezzell's Verdo Lawn Food |
| 4916* | 5-10- 5 | F & B Garden Food |
| 4965 | 5-10- 5 | F & B Garden Food |
| 5328 | 5-10- 5 | Fairlawn Fertilizer |
| 5325 | 5-10- 5 | Finelawn Fertilizer |
| 5693/ | 5-10- 5 | Garden Food |
| 5881* | 5-10- 5 | G & O Prizegro for Gardens |
| 5957 | 5-10- 5 | G & O Prizegro for Gardens |
| 4990 | 5-10- 5 | Green Ribbon Plant Food |
| 4986 | 5-10- 5 | Gro Fast Plant Food |
| 5357 | 5-10- 5 | Hart's All Purpose Plant Food |
| 5392* | 5-10- 5 | Hart's Plant Food |
| 5263* | 5-10- 5 | Hoffman Rose Food |
| 5332/ | 5-10- 5 | Holiday Flower & Garden Fertilizer |
| 4812 | 5-10- 5 | Homestead Farm Style Fertilizer |
| 4829 | 5-10- 5 | Hubbard-Hall Plant Food |
| 5612 | 5-10- 5 | Hubbard-Hall Plant Food (50% Organic) |
| 5751 | 5-10- 5 | Just Right Fertilizer |
| 5191 | 5-10- 5 | Lawn & Garden |
| 5839 | 5-10- 5 | Lawn Master |
| 4880/ | 5-10- 5 | Liberty Plant Food |
| 5028 | 5-10- 5 | Luzerne All Purpose Plant Food |
| 5587/ | 5-10- 5 | Mathieson Pelleted Fertilizer |

* Small package sample.

/ Unregistered.

~~~~~ Indicates deficiencies.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 124         | 12.80                           | 0.00   | 20.96                         | 19.67                                       | 19.18                                   | ....                  |
| 42          | 9.12                            | 0.00   | 20.16                         | 20.53                                       | 20.22                                   | ....                  |
| 112         | 8.84                            | 0.00   | 20.08                         | 20.10                                       | 19.10                                   | ....                  |
| 80          | 1.20                            | 0.00   | 4.60                          | 8.64                                        | 4.91                                    | ....                  |
| 6           | 0.48                            | 0.28   | 6.04                          | 9.43                                        | 5.54                                    | ....                  |
| 6           | 0.32                            | 0.08   | 5.00                          | 9.77                                        | 5.52                                    | ....                  |
| 11          | 0.16                            | 0.10   | 5.08                          | 10.00                                       | 5.50                                    | ....                  |
| 11          | 0.24                            | 0.12   | 5.00                          | 11.05                                       | 5.04                                    | ....                  |
| 11          | 0.00                            | 1.24   | 6.44                          | 9.71                                        | 5.24                                    | ....                  |
| 1           | 0.00                            | 0.46   | 5.80                          | 9.83                                        | 6.23                                    | ....                  |
| 24          | 0.32                            | 0.00   | 5.80                          | 10.03                                       | 5.72                                    | ....                  |
| 24          | 0.16                            | 0.16   | 5.68                          | 10.11                                       | 6.36                                    | ....                  |
| 27          | 0.16                            | 0.12   | 6.52                          | 9.67                                        | 5.02                                    | ....                  |
| 34          | 0.40                            | 0.17   | 5.48                          | 9.63                                        | 5.05                                    | ....                  |
| 34          | 0.32                            | 0.30   | 5.56                          | 10.05                                       | 5.37                                    | ....                  |
| 34          | 1.62                            | 1.02   | 4.80                          | 9.73                                        | 8.12                                    | ....                  |
| 34          | 1.04                            | 0.88   | 6.64                          | 11.68                                       | 8.10                                    | ....                  |
| 103         | 1.44                            | 0.00   | 6.44                          | 9.34                                        | 5.52                                    | ....                  |
| 47          | 1.32                            | 0.00   | 6.40                          | 9.93                                        | 5.05                                    | ....                  |
| 48          | 0.16                            | 0.58   | 5.14                          | 10.95                                       | 5.71                                    | ....                  |
| 48          | 0.32                            | 0.40   | 5.84                          | 9.27                                        | 6.36                                    | ....                  |
| 18          | 0.16                            | 0.18   | 5.88                          | 10.35                                       | 6.75                                    | ....                  |
| 18          | 2.04                            | 0.16   | 5.24                          | 9.69                                        | 5.01                                    | ....                  |
| 63          | 0.16                            | 0.00   | 5.00                          | 9.63                                        | 5.73                                    | ....                  |
| 62          | 0.48                            | 0.64   | 5.56                          | 9.88                                        | 5.45                                    | ....                  |
| 62          | 1.40                            | 0.54   | 5.68                          | 10.06                                       | 6.13                                    | ....                  |
| 67          | 1.52                            | 0.00   | 5.60                          | 10.36                                       | 5.35                                    | ....                  |
| 68          | 1.48                            | 0.00   | 5.48                          | 10.15                                       | 5.35                                    | ....                  |
| 71          | 0.24                            | 0.14   | 5.72                          | 9.37                                        | 5.46                                    | ....                  |
| 71          | 0.48                            | 0.16   | 5.88                          | 10.00                                       | 5.27                                    | ....                  |
| 75          | 0.40                            | 1.32   | 5.96                          | 10.17                                       | 6.03                                    | ....                  |
| 86          | 4.48                            | 0.26   | 10.82                         | 11.81                                       | 6.65                                    | ....                  |
| 6           | 0.08                            | 0.10   | 5.56                          | 9.48                                        | 5.21                                    | ....                  |
| 78          | 1.44                            | 2.06   | 6.08                          | 9.50                                        | 5.67                                    | ....                  |
| 78          | 1.28                            | 2.24   | 6.24                          | 12.04                                       | 5.11                                    | ....                  |
| 69          | 0.60                            | 0.32   | 5.00                          | 10.67                                       | 5.85                                    | ....                  |
| 53          | 0.44                            | 0.16   | 5.64                          | 10.43                                       | 5.25                                    | ....                  |
| 53          | 0.34                            | 0.10   | 6.28                          | 9.37                                        | 5.20                                    | ....                  |
| 78          | 1.80                            | 0.00   | 5.48                          | 10.10                                       | 5.20                                    | ....                  |
| 92          | ....                            | 0.20   | 5.48                          | 10.09                                       | 5.55                                    | ....                  |
| 105         | 0.00                            | 0.00   | 5.16                          | 10.46                                       | 5.25                                    | ....                  |

- <sup>13</sup> Boron: Guaranteed, 0.026%; found, 0.021%.  
 Iron: Guaranteed, 0.105%; found, 0.15%.  
 Copper: Guaranteed, 0.051%; found, 0.047%.  
 Zinc: Guaranteed, 0.071%; found, 0.074%.



TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station No.         |                | Ratio, grade and brand                    |
|---------------------|----------------|-------------------------------------------|
| 4871/               | 5-10- 5        | Mr. Turf's Flower & Garden Fertilizer     |
| 5143                | 5-10- 5        | Old Fox Garden Food for Lawns & Gardens   |
| 5527*               | 5-10- 5        | Pennsylvania Dutch Plant Food             |
| 4934                | 5-10- 5        | Perk-Up Plant Food Fertilizer             |
| 4875                | 5-10- 5        | Plantation Quality Fertilizer             |
| 5255                | 5-10- 5        | Sears Economy Fertilizer                  |
| 5258* <sup>14</sup> | 5-10- 5        | Sears Rose Food with Chelated Iron        |
| 5117/               | 5-10- 5        | Spur Lawn & Garden                        |
| 4884                | 5-10- 5        | Turf King Lawn & Garden Fertilizer        |
| 5744/               | 5-10- 5        | Union Fertilizer                          |
| 4975/               | 5-10- 5        | Valu-Gro                                  |
| 5595                | 8-16- 8        | Agrico Garden & Lawn Fertilizer           |
| 5713                | 10-20-10       | Eastern States Fertilizer with 0.6 Mg     |
| 5389*               | 10-20-10       | New Era Rose Food                         |
| 5336*               | 10-20-10       | Specialty All Purpose Food Pellets        |
| 5718*               | 13-26-13       | Hy-Gro Garden & Lawn Food                 |
| 5376*               | 15-30-15       | Cross Country Instant Tomato Food         |
| 4830*               | 15-30-15       | Stern's Miracle-Gro                       |
| 4811*               | 16-32-16       | Eastern States Start-N-Gro                |
|                     | <u>1- 2- 2</u> |                                           |
| 5537                | 5-10-10        | AA Quality Fertilizer with 1.2 Mg         |
| 5010                | 5-10-10        | Agrico for Potatoes with 1.2 Mg           |
| 4821                | 5-10-10        | Agway with 1.8 Mg                         |
| 5714 <sup>15</sup>  | 5-10-10        | Agway with 1.8 Mg                         |
| 5826                | 5-10-10        | Armour Vertagreen Acid Loving Plant Food  |
| 5950                | 5-10-10        | Breck's Garden Gro with 1.2 Mg            |
| 5396                | 5-10-10        | C & J Homogeneous Granulated Fertilizer   |
| 4911                | 5-10-10        | Corenco Fertilizer                        |
| 5188                | 5-10-10        | Corenco Fertilizer                        |
| 5952                | 5-10-10        | Corenco Liquid Fertilizer Concentrate     |
| 5535/               | 5-10-10        | Davco 3-G Granulated Fertilizer           |
| 4823                | 5-10-10        | Eastern States Plant Food with 1.8 Mg     |
| 4886* <sup>16</sup> | 5-10-10        | F & B Azalea, Camellia, Rhododendron Food |
| 5764 <sup>17</sup>  | 5-10-10        | F & B Azalea, Camellia, Rhododendron Food |
| 5557/               | 5-10-10        | Federal Lawn Life for Gardens with 1.2 Mg |
| 5148/               | 5-10-10        | Finelawn Azalea & Camellia Food           |
| 4978*               | 5-10-10        | G & O Tomato & Fruit Food                 |
| 5333*               | 5-10-10        | Hoffman Fertilizer for Garden             |
| 4985 <sup>1</sup>   | 5-10-10        | Liberty Fertilizer with 1.2 Mg            |
| 5282 <sup>1</sup>   | 5-10-10        | Liberty Fertilizer                        |
| 5509                | 5-10-10        | Liberty Fertilizer                        |
| 5516                | 5-10-10        | Liberty Fertilizer                        |

\* Small package sample. / Unregistered.

<sup>14</sup> Iron: Guaranteed, 0.10%; found, 0.70%.<sup>15</sup> Boron: Guaranteed, 0.02%; found, 0.017%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 99          | 4.12                            | 0.20   | 8.72                          | 10.79                                       | 6.84                                    | ....                  |
| 104         | 0.00                            | 0.16   | 5.28                          | 10.24                                       | 5.53                                    | ....                  |
| 88          | 0.48                            | 0.14   | 5.00                          | 9.42                                        | 5.06                                    | ....                  |
| 111         | 1.72                            | 0.00   | 5.40                          | 10.03                                       | 5.76                                    | ....                  |
| 18          | ....                            | 0.00   | 5.44                          | 9.67                                        | 5.54                                    | ....                  |
| 124         | 1.04                            | 0.60   | 5.88                          | 10.24                                       | 5.15                                    | ....                  |
| 124         | 1.88                            | 0.22   | 6.20                          | 9.42                                        | 5.16                                    | ....                  |
| 1           | 0.22                            | 0.46   | 5.80                          | 10.14                                       | 5.55                                    | ....                  |
| 1           | 0.12                            | 0.44   | 6.08                          | 9.34                                        | 5.77                                    | ....                  |
| 141         | 0.72                            | 0.00   | 5.28                          | 9.53                                        | 5.38                                    | ....                  |
| 141         | 0.24                            | 0.10   | 5.40                          | 9.73                                        | 5.67                                    | ....                  |
| 6           | 1.68                            | 1.40   | 9.00                          | 14.59                                       | 8.32                                    | ....                  |
| 3           | 0.48                            | 0.12   | 10.08                         | 19.66                                       | 9.92                                    | 1.00                  |
| 31          | 3.76                            | 0.00   | 11.52                         | 20.67                                       | 10.39                                   | ....                  |
| 129         | 2.16                            | 0.18   | 11.28                         | 22.28                                       | 11.06                                   | ....                  |
| 113         | 0.16                            | 0.00   | 14.00                         | 27.68                                       | 14.08                                   | ....                  |
| 124         | 8.48                            | 0.00   | 15.04                         | 29.93                                       | 15.52                                   | ....                  |
| 132         | 8.32                            | 0.00   | 15.52                         | 31.15                                       | 15.44                                   | ....                  |
| 3           | 1.76                            | 0.00   | 16.24                         | 33.07                                       | 16.04                                   | ....                  |
|             |                                 |        |                               |                                             |                                         |                       |
| 6           | 0.32                            | 0.00   | 5.36                          | 9.67                                        | 10.07                                   | 2.02                  |
| 6           | 0.68                            | 0.00   | 4.76                          | 9.87                                        | 10.70                                   | 1.60                  |
| 3           | 0.56                            | 0.00   | 5.12                          | 10.08                                       | 10.00                                   | 3.28                  |
| 3           | 0.32                            | 0.00   | 5.36                          | 9.93                                        | 9.91                                    | 2.88                  |
| 11          | 0.52                            | 1.00   | 6.20                          | 10.23                                       | 10.22                                   | ....                  |
| 12          | 0.00                            | 0.08   | 5.60                          | 10.01                                       | 10.66                                   | 2.40                  |
| 24          | 0.08                            | 0.00   | 5.04                          | 10.51                                       | 10.51                                   | ....                  |
| 34          | 0.08                            | 0.12   | 5.52                          | 10.17                                       | 10.18                                   | ....                  |
| 34          | 0.16                            | 0.00   | 5.28                          | 10.17                                       | 10.43                                   | ....                  |
| 34          | 0.32                            | 0.00   | 5.36                          | 10.14                                       | 10.12                                   | ....                  |
| 63          | 0.16                            | 0.00   | 5.20                          | 10.13                                       | 10.20                                   | ....                  |
| 3           | 0.64                            | 0.00   | 5.28                          | 10.20                                       | 10.07                                   | 3.24                  |
| 48          | 3.04                            | 0.24   | 5.00                          | 10.33                                       | 10.24                                   | ....                  |
| 48          | 2.56                            | 0.32   | 5.00                          | 10.35                                       | 10.16                                   | ....                  |
| 53          | 0.92                            | 0.20   | 6.40                          | 10.02                                       | 9.56                                    | 2.54                  |
| 18          | 0.88                            | 0.00   | 5.00                          | 9.56                                        | 10.40                                   | ....                  |
| 62          | 0.32                            | 0.12   | 5.24                          | 9.77                                        | 11.03                                   | ....                  |
| 75          | 0.30                            | 0.18   | 4.48                          | 10.54                                       | 12.46                                   | ....                  |
| 78          | 0.52                            | 0.32   | 5.32                          | 10.02                                       | 10.08                                   | 1.27                  |
| 78          | 1.76                            | 0.00   | 5.24                          | 10.92                                       | 10.15                                   | ....                  |
| 78          | 0.46                            | 0.34   | 5.28                          | 10.07                                       | 10.18                                   | ....                  |
| 78          | 0.38                            | 0.38   | 5.56                          | 10.02                                       | 10.45                                   | ....                  |

~~~~~ Indicates deficiencies.

¹ State purchase.¹⁶ Iron: Guaranteed, 0.15%; found, 0.73%.¹⁷ Iron: Guaranteed, 0.15%; found, 0.73%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | | Ratio, grade and brand |
|--------------------|----------|---|
| 5717 ¹ | 5-10-10 | Liberty Fertilizer |
| 5119 | 5-10-10 | Liberty Fertilizer with 1.2 Mg |
| 5655 | 5-10-10 | Liberty Fertilizer with 2 lbs. Actual Disysto N |
| 5518 | 5-10-10 | Liberty Fertilizer contains Chlordane |
| 5939 | 5-10-10 | Liberty Super Grow with 1.2 Mg |
| 5772/ | 5-10-10 | Old Fox Fertilizer |
| 5856 | 5-10-10 | Old Fox Fertilizer with 1.2 Mg |
| 5562/ | 5-10-10 | Olin Fertilizer |
| 5295* | 5-10-10 | Vigoro Azalea & Camellia Food |
| 5329 | 5-10-10 | Vigoro Azalea & Camellia Food |
| 4936 ¹⁸ | 5-10-10 | Vigoro Evergreen Food |
| 5944 ¹⁹ | 5-10-10 | Vitogro Evergreen Food |
| 5190* | 6-12-12 | Armour Vertagreen Tomato Plant Food |
| 5692 | 8-16-16 | AA Quality Fertilizer |
| 5873 | 8-16-16 | Agway |
| 5125 ²⁰ | 8-16-16 | Agway Free Flow |
| 5698 ²¹ | 8-16-16 | Agway Free Flow |
| 5234 | 8-16-16 | Corenco |
| 5536/ | 8-16-16 | Davco 3-G Granulated Fertilizer |
| 5342 | 8-16-16 | Liberty Fertilizer |
| 5023 ¹ | 8-16-16 | Liberty Fertilizer |
| 5774 | 8-16-16 | Liberty Fertilizer |
| 4826 ¹ | 8-16-16 | Liberty Fertilizer |
| 5858 | 8-16-16 | Old Fox Fertilizer |
| 5689 | 10-20-20 | Agrico for Corn |
| 5715 ²² | 10-20-20 | Agway Ferti Flow |
| 4808 | 10-20-20 | Eastern States |
| 5517/ | 10-20-20 | Liberty Fertilizer |
| 5225/ | 10-20-20 | Old Fox |
| <u>1- 3- 1</u> | | |
| 5277* | 5-15- 5 | Ortho Up-Start |
| 4867* | 6-18- 6 | New Era Liquid African Violet Food |
| 5013* | 6-18- 6 | Ortho Liquid Tomato Food |
| 5543* | 6-18- 6 | Plantdrops Instant Liquid African Violet Food |
| <u>2- 1- 1</u> | | |
| 4908 | 4- 2- 2 | Pax Crabgrass Control |
| 5951 | 10- 5- 5 | Corenco Liquid-Green |
| 4917 | 10- 5- 5 | Corenco Organo |
| 5026 ²³ | 10- 5- 5 | DuPont Trey Triple Action Lawn Aid |
| 5141 ¹ | 10- 5- 5 | Eastern States Green Lawn with 2.4 Mg |

* Small package sample. / Unregistered.

¹⁸ Iron: Guaranteed, 0.15%; found 0.41%.

¹⁹ Iron: Guaranteed, 0.15%; found, 1.01%.

²⁰ Boron: Guaranteed: 0.02%; found, 0.031%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 78 | 1.64 | 0.00 | 5.32 | 10.49 | 10.03 | .... |
| 78 | 1.64 | 0.00 | 5.16 | 10.55 | 10.06 | 2.52 |
| 78 | 1.04 | 0.22 | 5.48 | 9.34 | 10.20 | .... |
| 78 | 0.60 | 0.48 | 5.48 | 9.67 | 10.21 | .... |
| 78 | 1.04 | 0.12 | 5.32 | 9.81 | 9.69 | 2.72 |
| 104 | 1.04 | 0.12 | 8.24 | 9.46 | 8.86 | .... |
| 104 | 0.00 | 0.00 | 6.12 | 10.24 | 10.04 | 2.12 |
| 105 | 0.16 | 0.00 | 5.00 | 10.94 | 10.18 | .... |
| 135 | 0.16 | 0.16 | 5.00 | 10.01 | 10.11 | .... |
| 135 | 0.24 | 0.58 | 5.08 | 8.91 | 11.04 | .... |
| 135 | 0.16 | 0.50 | 5.00 | 9.90 | 10.02 | .... |
| 135 | 0.16 | 0.16 | 4.88 | 9.73 | 10.65 | .... |
| 11 | 0.04 | 0.00 | 5.48 | 11.51 | 12.34 | .... |
| 6 | 0.00 | 0.00 | 8.00 | 15.86 | 16.08 | .... |
| 3 | 0.64 | 0.00 | 8.36 | 16.15 | 16.24 | .... |
| 3 | 1.08 | 0.00 | 8.44 | 14.90 | 16.62 | .... |
| 3 | 0.08 | 0.00 | 8.40 | 15.67 | 16.30 | .... |
| 34 | 1.40 | 0.16 | 7.88 | 14.32 | 16.06 | .... |
| 63 | 0.48 | 0.00 | 8.00 | 16.03 | 17.28 | .... |
| 78 | 0.16 | 0.00 | 7.00 | 16.54 | 16.00 | .... |
| 78 | 1.20 | 0.00 | 7.04 | 16.62 | 16.74 | .... |
| 78 | 0.38 | 0.00 | 7.18 | 15.66 | 16.66 | .... |
| 78 | 0.24 | 0.00 | 6.80 | 16.48 | 18.28 | .... |
| 104 | 0.08 | 0.12 | 7.48 | 15.41 | 16.00 | .... |
| 6 | 0.08 | 0.12 | 10.32 | 19.50 | 18.82 | .... |
| 3 | 0.64 | 0.10 | 10.00 | 19.08 | 20.16 | .... |
| 3 | 0.32 | 0.10 | 10.24 | 18.91 | 21.06 | .... |
| 78 | 0.48 | 0.10 | 8.66 | 15.56 | 20.78 | .... |
| 104 | 0.00 | 0.10 | 10.42 | 20.81 | 19.62 | .... |
| | | | | | | |
| 29 | 0.00 | 0.00 | 5.00 | 15.31 | 5.03 | .... |
| 31 | 0.00 | 0.00 | 6.60 | 19.70 | 6.76 | .... |
| 29 | 0.00 | 0.00 | 6.10 | 18.89 | 6.49 | .... |
| 136 | 0.08 | 0.00 | 6.08 | 18.90 | 6.05 | .... |
| | | | | | | |
| 109 | .... | 0.00 | 4.32 | 35.26 | 2.35 | .... |
| 34 | 7.28 | 0.00 | 10.24 | 5.39 | 5.29 | .... |
| 34 | 2.96 | 0.64 | 10.32 | 5.04 | 5.63 | .... |
| 40 | 3.92 | 4.32 | 10.56 | 6.08 | 5.97 | .... |
| 3 | 2.26 | 5.50 | 10.32 | 5.53 | 5.43 | 4.91 |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.<sup>21</sup> Boron: Guaranteed, 0.02%; found, 0.015%.<sup>22</sup> Boron: Guaranteed, 0.02%; found, 0.045%.<sup>23</sup> Iron: Guaranteed, 0.25%; found, 1.76%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station<br>No.     |                | Ratio, grade and brand                                               |
|--------------------|----------------|----------------------------------------------------------------------|
| 5757/              | 10- 5- 5       | Godfrey's Lawn & Tree Food                                           |
| 4850               | 10- 5- 5       | Greenfield Triple Action Crabgrass Killer &<br>Lawn Food             |
| 5836               | 10- 5- 5       | Hubbard-Hall Luxura Lawn Food                                        |
| 5553               | 10- 5- 5       | Lawncraft Turf Food (70% of Nit. is Org.)                            |
| 5522*              | 10- 5- 5       | Liquid Vigoro Plant Food for House Plants                            |
| 5235/              | 10- 5- 5       | Platt's Hi-Organic Lawn Fertilizer                                   |
| 5359/              | 10- 5- 5       | Platt's Hi-Organic Lawn Fertilizer                                   |
| 5588/              | 10- 5- 5       | Policastro's Blue Chip Turf & Tree Food                              |
| 5171*              | 10- 5- 5       | Re/Vive Evergreen Food                                               |
| 5121 <sup>1</sup>  | 10- 5- 5       | Squire Applegate Greenlawn                                           |
| 5467               | 10- 5- 5       | Squire Applegate Greenlawn                                           |
| 5508               | 10- 5- 5       | Woodruff's Lawn & Tree Food                                          |
| 5262 <sup>24</sup> | 12- 6- 6       | EnVee Triple Action Crabgrass Killer plus<br>Lawn Food - Insecticide |
| 4974/              | 12- 6- 6       | G & O Super-Hyganic Lawn Food                                        |
| 5880/              | 12- 6- 6       | G & O Super-Hyganic Lawn Food with Crab-<br>grass & Insect Killer    |
| 5746/              | 12- 6- 6       | G & O Super-Hyganic Weed Killer with 2, 4-D                          |
| 5371*              | 12- 6- 6       | Ortho-Gro Liquid Plant Food                                          |
| 5810 <sup>25</sup> | 12- 6- 6       | Ortho-Gro Liquid Plant Food                                          |
| 5505               | 12- 6- 6       | Ortho Liquid Plant Food                                              |
| 5801               | 16- 8- 8       | Agrico Country Club Fertilizer                                       |
| 5201               | 16- 8- 8       | Agrico Grass Food                                                    |
| 5538               | 16- 8- 8       | Agrico for Plowdown                                                  |
| 5302               | 16- 8- 8       | Sears Lawn Quick Green                                               |
| 5127               | 16- 8- 8       | Squire Applegate Pro-Green Granular                                  |
| 5027 <sup>26</sup> | 20-10-10       | DuPont Turf Food                                                     |
| 5344 <sup>27</sup> | 20-10-10       | DuPont Turf Food with 2, 4-D Weed Killer                             |
| 4865               | 20-10-10       | Heritage House Lawn Food                                             |
| 5569               | 24-12-12       | Fer-Mel Turf & Tree Food                                             |
|                    | <u>2- 1- 2</u> |                                                                      |
| 5265*              | 2- 1- 2        | New Plant Life                                                       |
| 5759               | 4- 2- 4        | Fertrell Super "N"                                                   |
| 5731               | 6- 3- 6        | Armour Gold Bond Tobacco Grower                                      |
| 5778               | 6- 3- 6        | Liberty Tobacco Fertilizer                                           |
| 5659               | 6- 3- 6        | Liberty Tobacco Fertilizer Half & Half                               |
| 5657               | 6- 3- 6        | Liberty Tobacco Fertilizer Pomace Base                               |
| 5853               | 6- 3- 6        | Old Fox Tobacco Fertilizer                                           |
| 5854               | 6- 3- 6        | Old Fox Tobacco Fertilizer with 1.2 Mg                               |
| 5391*              | 16- 8-16       | Eeesy Grow                                                           |

\* Small package sample. / Unregistered.

<sup>24</sup> Sulfur: Guaranteed, 2.75%; found, 6.83%.<sup>25</sup> Iron: Guaranteed, 0.50%; found, 0.16%.

Zinc: Guaranteed, 0.10%; found, 0.10%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 16          | 3.60                            | 5.00   | 10.00                         | 6.30                                        | 5.43                                    | ....                  |
| 42          | 3.72                            | 1.36   | 10.44                         | 5.56                                        | 5.10                                    | ....                  |
| 78          | 3.06                            | 4.46   | 10.40                         | 5.64                                        | 5.18                                    | ....                  |
| 78          | 1.92                            | 5.36   | 10.32                         | 5.29                                        | 5.70                                    | ....                  |
| 135         | 7.68                            | 0.00   | <u>9.44</u>                   | <u>4.62</u>                                 | 5.02                                    | ....                  |
| 114         | 3.96                            | 0.52   | 10.32                         | 6.23                                        | 5.04                                    | ....                  |
| 114         | 3.52                            | 0.58   | 10.00                         | 5.79                                        | 5.01                                    | ....                  |
| 115         | 1.98                            | 4.48   | 10.00                         | 5.00                                        | 5.41                                    | ....                  |
| 77          | 6.58                            | 0.62   | 10.40                         | 5.07                                        | <u>4.63</u>                             | ....                  |
| 3           | 2.34                            | 5.50   | 10.24                         | 5.24                                        | 5.83                                    | ....                  |
| 3           | 2.40                            | 5.26   | 10.24                         | 5.30                                        | 5.37                                    | ....                  |
| 148         | 5.20                            | 2.06   | 10.06                         | 5.82                                        | 5.19                                    | ....                  |
| 77          | 4.30                            | 0.10   | 12.08                         | 6.57                                        | 6.77                                    | ....                  |
| 62          | 1.68                            | 3.04   | 12.24                         | 5.86                                        | 6.52                                    | ....                  |
| 62          | 1.62                            | 3.62   | 12.80                         | 5.81                                        | 6.14                                    | ....                  |
| 62          | 1.68                            | 5.06   | 12.64                         | <u>5.00</u>                                 | 6.33                                    | ....                  |
| 29          | 12.00                           | 0.00   | 12.88                         | 6.01                                        | 6.20                                    | ....                  |
| 29          | 12.16                           | 0.00   | 12.76                         | 6.33                                        | 6.17                                    | ....                  |
| 29          | 12.48                           | 0.00   | 12.88                         | 6.21                                        | 6.68                                    | ....                  |
| 6           | 0.72                            | 0.00   | 16.00                         | 9.48                                        | 8.84                                    | ....                  |
| 6           | 5.04                            | 6.64   | 17.68                         | 9.18                                        | 9.50                                    | ....                  |
| 6           | 0.32                            | 0.00   | 16.24                         | 9.25                                        | 8.15                                    | ....                  |
| 124         | 0.72                            | 0.20   | 16.48                         | <u>6.93</u>                                 | 8.16                                    | ....                  |
| 3           | 4.88                            | 5.44   | 16.56                         | 8.25                                        | 8.21                                    | ....                  |
| 40          | 8.60                            | 9.00   | 20.64                         | 10.92                                       | 10.04                                   | ....                  |
| 40          | 8.16                            | 8.48   | 20.00                         | 10.48                                       | 10.06                                   | ....                  |
| 73          | 14.12                           | 2.20   | 20.00                         | <u>9.29</u>                                 | 13.36                                   | ....                  |
| 97          | 18.00                           | 0.00   | 25.84                         | 12.74                                       | 13.36                                   | ....                  |
| 102         | 0.00                            | 0.00   | 2.64                          | 1.23                                        | 1.91                                    | ....                  |
| 101         | 0.72                            | 2.82   | <u>3.54</u>                   | <u>1.47</u>                                 | 4.32                                    | ....                  |
| 11          | 2.16                            | 2.38   | 6.16                          | 3.15                                        | 6.88                                    | ....                  |
| 78          | 2.40                            | 2.96   | 6.60                          | 3.47                                        | 6.12                                    | ....                  |
| 78          | 1.76                            | 2.60   | <u>5.60</u>                   | 3.16                                        | 7.03                                    | ....                  |
| 78          | 2.56                            | 2.02   | <u>5.48</u>                   | 2.95                                        | 6.49                                    | ....                  |
| 104         | 0.88                            | 1.86   | <u>4.12</u>                   | 3.32                                        | 8.00                                    | ....                  |
| 104         | 2.40                            | 2.76   | 6.64                          | 3.33                                        | 6.41                                    | 3.38                  |
| 122         | 0.40                            | 0.00   | 18.00                         | 10.16                                       | 18.60                                   | ....                  |

~~~~~ Indicates deficiencies.

¹ State purchase.²⁶ Iron: Guaranteed, 0.50%; found, 0.70%.²⁷ Iron: Guaranteed, 0.50%; found, 1.09%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|--------------------|------------------------|---------------------------------------|
| | <u>2- 3- 3</u> | |
| 5850 ²⁸ | 4- 6- 6 | Espoma Garden-Tone |
| 5953 | 8-12-12 | Corenco Fertilizer with 0.9 Mg |
| 5775/ | 8-12-12 | Liberty Fertilizer with 1.2 Mg |
| | <u>2- 5- 2</u> | |
| 5346* | 4-10- 4 | Emerald Green Evergreen Food |
| 4992* | 4-10- 4 | Hubbard-Hall Evergreen Food |
| 5155 | 4-10- 4 | Hubbard-Hall Evergreen Food |
| | <u>3- 1- 1</u> | |
| 5838 | 3- 1- 1 | Adorna |
| 5499 | 12- 4- 4 | Davey Tree Food |
| 5501 | 15- 5- 5 | Da-V-Green Lawn Food |
| 4977* | 15- 5- 5 | Ortho-Gro Liquid Plant Food |
| 5594* | 30-10-10 | Stern's Miracid |
| | <u>3- 1- 2</u> | |
| 5781 | 12- 4- 8 | Agrico Country Club Fertilizer |
| 5576 | 12- 4- 8 | Fer-Mel Putting Green Turf Food |
| 5941 | 12- 4- 8 | Lawncraft Turf Food VFT "24" |
| | <u>3- 2- 2</u> | |
| 5691 | 15-10-10 | AA Quality Fertilizer |
| 4947 | 15-10-10 | Agway |
| 5341 | 15-10-10 | Agway Fertilizer |
| 5181 ²⁹ | 15-10-10 | Agway Ferti Flow |
| 5381 | 15-10-10 | C & J Lawn Food 7500 |
| 5233 | 15-10-10 | Corenco Fertilizer |
| 5690/ | 15-10-10 | Davco 3-G Granulated Fertilizer |
| 5019 | 15-10-10 | Liberty Fertilizer |
| 5138 | 15-10-10 | New Formula Super Rainbow with 1.2 Mg |
| 5222 | 15-10-10 | Old Fox |
| 5577 | 21-14-14 | Agway |
| | <u>3- 4- 4</u> | |
| 5232 | 6- 8- 8 | Corenco with 1.2 Mg |
| 5940 | 6- 8- 8 | Liberty Super Spud with 1.2 Mg |
| 5210 | 6- 8- 8 | Old Fox with 1.2 Mg |

* Small package sample.

/ Unregistered.

²⁸ Boron: Guaranteed, 0.02%; found, 0.018%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 44 | 0.60 | 0.88 | 6.04 | 6.91 | 6.60 | .... |
| 34 | 0.32 | 0.00 | 8.00 | 11.84 | 11.85 | 1.20 |
| 78 | 0.16 | 0.00 | <u>7.32</u> | 11.87 | 12.56 | 1.52 |
| 54 | 1.32 | 1.92 | 5.16 | <u>9.24</u> | 4.04 | .... |
| 78 | 1.66 | 1.02 | 5.16 | 10.14 | 5.35 | .... |
| 78 | 0.86 | 1.62 | 4.72 | <u>9.55</u> | 4.18 | .... |
| 140 | 0.48 | 3.00 | 3.48 | 2.99 | 1.39 | .... |
| 37 | 0.40 | 0.52 | <u>11.68</u> | 5.13 | 4.65 | .... |
| 37 | 5.32 | 4.44 | <u>15.12</u> | 5.39 | 5.86 | .... |
| 29 | 14.96 | 0.00 | 15.68 | 5.18 | 6.59 | .... |
| 132 | 26.56 | 0.00 | 31.68 | 10.38 | 10.45 | .... |
| 6 | 2.94 | 5.14 | 12.00 | 4.27 | 8.19 | .... |
| 97 | 3.64 | 2.84 | 13.52 | 4.44 | 8.54 | .... |
| 78 | 2.54 | 8.50 | 12.00 | 5.16 | 7.44 | .... |
| 6 | 0.40 | 0.00 | <u>14.88</u> | 10.67 | 10.02 | .... |
| 3 | 10.48 | 0.00 | <u>15.20</u> | 10.36 | 10.50 | .... |
| 3 | 4.80 | 0.00 | 15.28 | 10.21 | 10.58 | .... |
| 3 | 0.00 | 0.00 | 15.04 | 11.19 | 10.09 | .... |
| 24 | 0.72 | 0.00 | <u>14.16</u> | 10.98 | 10.04 | .... |
| 34 | 0.56 | 0.08 | <u>15.20</u> | <u>8.08</u> | <u>9.46</u> | .... |
| 63 | 0.32 | 0.00 | <u>14.56</u> | <u>10.93</u> | 10.18 | .... |
| 78 | 0.48 | 0.00 | <u>15.36</u> | <u>5.95</u> | 10.49 | .... |
| 82 | 0.08 | 0.00 | 15.28 | <u>9.21</u> | 10.02 | 1.44 |
| 104 | 0.32 | 0.20 | <u>13.44</u> | <u>11.06</u> | 10.72 | .... |
| 3 | 0.12 | 0.00 | <u>19.84</u> | <u>13.01</u> | 16.11 | .... |
| 34 | 0.00 | 0.00 | 6.44 | 8.02 | 9.00 | 1.24 |
| 78 | 1.36 | 0.28 | 6.20 | 8.23 | <u>7.49</u> | 2.70 |
| 104 | 0.08 | 0.08 | 7.00 | 8.61 | 8.33 | 1.22 |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>29</sup> Boron: Guaranteed, 0.02%; found, 0.015%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No. | Ratio, grade and brand |                                                                   |
|----------------|------------------------|-------------------------------------------------------------------|
|                | <u>3- 5- 2</u>         |                                                                   |
| 4935           | 6-10- 4                | Vigoro All Purpose Complete Plant Food                            |
| 4955*          | 6-10- 4                | Vigoro Rose Food                                                  |
| 5947           | 6-10- 4                | Vitogro Garden Grower                                             |
| 5031           | 6-10- 4                | Grand Union Brand Lawn & Garden Fertilizer                        |
|                | <u>4- 2- 1</u>         |                                                                   |
| 5806           | 16- 8- 4               | Greenfield Springtime Triple Action                               |
| 5008           | 16- 8- 4               | Vitogro Lawn Food                                                 |
| 5948           | 16- 8- 4               | Vitogro Lawn Weeder & Feeder                                      |
| 5015/          | 20-10- 5               | APCO Country Club Lawn Fertilizer                                 |
| 5484           | 20-10- 5               | Armour Lightweight Vertagreen                                     |
| 5353           | 20-10- 5               | Atlantic's Lightweight Fertilizer for Turf                        |
| 4913           | 20-10- 5               | Burpee Lawn Food                                                  |
| 5395           | 20-10- 5               | C & J Lawn Food with 2, 4-D Weed Killer                           |
| 5174           | 20-10- 5               | Conn. Nurserymen's Ass'n. Turf Food                               |
| 4991/          | 20-10- 5               | Deerfield Lightweight Lawn Food                                   |
| 5260/          | 20-10- 5               | EnVee Lightweight Lawn Food                                       |
| 5203/          | 20-10- 5               | Farmingdale Double Action Weed & Feed                             |
| 5504/          | 20-10- 5               | Farmingdale High Analysis Turf Food                               |
| 5326/          | 20-10- 5               | Finelawn Lawn Food                                                |
| 5157/          | 20-10- 5               | Formula 22-35X Lawn Fertilizer                                    |
| 5758/          | 20-10- 5               | Godfrey's Professional Lightweight Turf Food                      |
| 4868           | 20-10- 5               | Gold Seal Lawn Food                                               |
| 5489           | 20-10- 5               | Grand Union Brand Lightweight Lawn Fertilizer                     |
| 4864           | 20-10- 5               | Greenfield Broadleaf Weed Killer & Measured-<br>Release Lawn Food |
| 4849           | 20-10- 5               | Greenfield Measured-Release Lawn Food                             |
| 4994           | 20-10- 5               | Hart's Turf Food                                                  |
| 5269           | 20-10- 5               | Holdridge Turf Food                                               |
| 5331/          | 20-10- 5               | Holiday Weed & Feed                                               |
| 5555/          | 20-10- 5               | Homestead Custom Lawn Food                                        |
| 4926           | 20-10- 5               | Hubbard-Hall Blade Lawn Food                                      |
| 4882           | 20-10- 5               | Kentucky Turf Lawn Food                                           |
| 5845/          | 20-10- 5               | Kentucky Valley's Lightweight Fertilizer for<br>Turf              |
| 5841/          | 20-10- 5               | Kentucky Valley's Weed & Feed                                     |
| 5330/          | 20-10- 5               | Lawn Aide Lawn Fertilizer                                         |
| 5770/          | 20-10- 5               | Lawn Time Lightweight Lawn Food                                   |
| 5474           | 20-10- 5               | Loft's Lightweight Fertilizer for Turf                            |
| 5811           | 20-10- 5               | Loft's Weed & Feed                                                |
| 5480           | 20-10- 5               | McArdle's Turf Food                                               |
| 5506/          | 20-10- 5               | Mr. Turf's Lawn Fertilizer                                        |
| 4869/          | 20-10- 5               | Mr. Turf's Weed & Feed                                            |
| 5507           | 20-10- 5               | Plantation Lawn Food                                              |

\* Small package sample.

/ Unregistered.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 135         | 0.40                            | 0.20   | 6.28                          | <u>9.87</u>                                 | 4.40                                    | ....                  |
| 135         | 0.32                            | 0.16   | 6.28                          | 10.12                                       | 4.41                                    | ....                  |
| 135         | 0.24                            | 0.22   | 6.08                          | 9.87                                        | 4.54                                    | ....                  |
| 65          | 0.56                            | 0.14   | 6.16                          | <u>9.92</u>                                 | 4.11                                    | ....                  |
| 42          | 14.56                           | 0.24   | 17.52                         | 8.56                                        | 4.37                                    | ....                  |
| 135         | 9.36                            | 5.00   | 16.36                         | 8.11                                        | 4.11                                    | ....                  |
| 135         | 9.44                            | 5.12   | 16.56                         | <u>7.60</u>                                 | 4.45                                    | ....                  |
| 1           | 15.20                           | 0.16   | 20.32                         | <u>9.60</u>                                 | 7.18                                    | ....                  |
| 11          | 16.80                           | 0.24   | 21.92                         | 10.00                                       | 6.02                                    | ....                  |
| 13          | 9.44                            | 1.12   | <u>16.80</u>                  | 10.15                                       | 5.40                                    | ....                  |
| 23          | 12.84                           | 4.44   | 22.08                         | <u>9.64</u>                                 | 5.67                                    | ....                  |
| 24          | 9.44                            | 4.48   | <u>19.20</u>                  | 11.46                                       | 5.02                                    | ....                  |
| 24          | 13.40                           | 0.20   | 20.48                         | 10.32                                       | 5.30                                    | ....                  |
| 103         | 11.68                           | 0.16   | <u>17.92</u>                  | 11.08                                       | 5.28                                    | ....                  |
| 77          | 15.68                           | 0.00   | <u>20.16</u>                  | 9.00                                        | 5.48                                    | ....                  |
| 51          | 12.16                           | 0.52   | 18.12                         | <u>10.50</u>                                | 5.36                                    | ....                  |
| 51          | 14.14                           | 0.24   | <u>19.76</u>                  | 10.06                                       | 5.02                                    | ....                  |
| 18          | 8.16                            | 3.28   | <u>18.08</u>                  | 9.45                                        | 5.71                                    | ....                  |
| 38          | 12.48                           | 1.48   | <u>20.32</u>                  | 9.90                                        | 5.06                                    | ....                  |
| 60          | 4.16                            | 4.80   | <u>13.36</u>                  | 10.30                                       | 5.35                                    | ....                  |
| 8           | 12.48                           | 0.32   | <u>19.68</u>                  | 11.12                                       | 5.24                                    | ....                  |
| 65          | 4.32                            | 3.68   | <u>18.08</u>                  | 12.02                                       | 5.03                                    | ....                  |
| 42          | 12.96                           | 1.96   | <u>19.72</u>                  | 10.65                                       | 6.78                                    | ....                  |
| 42          | 12.32                           | 2.36   | <u>20.12</u>                  | 11.39                                       | 6.80                                    | ....                  |
| 71          | 11.04                           | 4.52   | 20.84                         | 11.27                                       | 6.42                                    | ....                  |
| 76          | 8.64                            | 2.12   | <u>17.76</u>                  | 7.69                                        | 5.64                                    | ....                  |
| 86          | 12.32                           | 0.00   | <u>20.48</u>                  | 11.67                                       | 5.28                                    | ....                  |
| 6           | 10.24                           | 5.28   | 20.48                         | <u>8.56</u>                                 | 6.30                                    | ....                  |
| 78          | 11.68                           | 5.12   | 21.76                         | 11.30                                       | 6.17                                    | ....                  |
| 8           | 13.54                           | 0.28   | 20.32                         | 10.48                                       | 7.05                                    | ....                  |
| 85          | 10.28                           | 0.12   | <u>15.36</u>                  | <u>8.86</u>                                 | 5.38                                    | ....                  |
| 85          | 12.00                           | 0.28   | <u>19.52</u>                  | <u>9.32</u>                                 | 5.87                                    | ....                  |
| 86          | 15.72                           | 0.12   | <u>20.96</u>                  | 11.57                                       | 5.02                                    | ....                  |
| 77          | 14.88                           | 0.24   | 20.08                         | 14.06                                       | 4.98                                    | ....                  |
| 91          | 14.56                           | 0.16   | 20.80                         | 10.48                                       | 5.56                                    | ....                  |
| 91          | 14.22                           | 0.64   | <u>18.88</u>                  | 10.70                                       | 5.47                                    | ....                  |
| 93          | 13.72                           | 0.36   | <u>20.32</u>                  | <u>9.56</u>                                 | 5.85                                    | ....                  |
| 99          | 15.16                           | 0.20   | 20.32                         | <u>10.39</u>                                | 7.68                                    | ....                  |
| 99          | 15.84                           | 0.20   | 20.96                         | 10.42                                       | 5.38                                    | ....                  |
| 18          | 8.56                            | 3.40   | <u>18.56</u>                  | <u>9.66</u>                                 | 6.75                                    | ....                  |

~~~~~ Indicates deficiencies.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|----------------|------------------------|--|
| 5189 | 20-10- 5 | Seaboard Lawn Builder |
| 5254 | 20-10- 5 | Sears Green Karpet Lawn Food |
| 5360 | 20-10- 5 | Society Hill Lawn Builder |
| 5168 | 20-10- 5 | Suburban Pride Complete Lightweight Lawn Food |
| 5370/ | 20-10- 5 | Supre-Macy Turf Food |
| 5805/ | 20-10- 5 | Turf Master Emerald |
| 5849 | 20-10- 5 | Western Auto Revelation Lawn Fertilizer |
| 5848 | 20-10- 5 | WA Revelation Weed & Feed with 2,4-D |
| | <u>4- 3- 1</u> | |
| 5699 | 8- 6- 2 | Corenco Landscape (40% of Nit. is Org.) |
| 5146 | 8- 6- 2 | Old Fox No Pest Turf Food |
| 5223 | 8- 6- 2 | Old Fox Turf Food |
| 5216 | 8- 6- 2 | Old Fox Turf Food & Crabgrass Control |
| 4958 | 8- 6- 2 | Yale Special Mixture |
| | <u>4- 3- 2</u> | |
| 5030 | 8- 6- 4 | Corenco Turf Green |
| 5463 | 8- 6- 4 | Corenco Turf Green |
| 5237 | 8- 6- 4 | Corenco Turf Green with Chlordane |
| 5144 | 8- 6- 4 | Green Leaf Fertilizer |
| 5720 | 8- 6- 4 | Guardian Gro-Green Lawn Fertilizer |
| 5931 | 8- 6- 4 | Lawncraft Turf Food (50% Organic) |
| 5937 | 8- 6- 4 | Lawncraft Turf Food Fish Base (50% Org.) |
| 5177 | 8- 6- 4 | Squire Applegate Special Weed 'N Green Turfood & Weed Control & Chickweed Killer |
| 4820 | 8- 6- 4 | Squire Applegate Turfood & Crabgrass Killer |
| 5126 | 8- 6- 4 | Squire Applegate Weed 'N Green Turfood & Weed Control |
| 5767* | 12- 9- 6 | Scope Systemic 2 in 1 Rose Care |
| | <u>4- 6- 3</u> | |
| 5356* | 8-12- 6 | Emerald Green Plant Food |
| 5462/ | 8-12- 6 | Emerald Green Plant Food |
| 5264* | 8-12- 6 | Pink Vigoro |
| 5946 | 8-12- 6 | Pink Vigoro |
| | <u>5- 2- 1</u> | |
| 4848 | 25-10- 5 | Sears Superfine Lawn Food |
| 5156 | 25-10- 5 | Woodruff's Tuf Turf Turf Food |

* Small package sample.

/ Unregistered.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 73 | 16.48 | 0.20 | 20.36 | 10.44 | 8.06 | .... |
| 124 | 16.52 | 0.12 | 20.32 | 12.46 | 5.31 | .... |
| 73 | 17.88 | 0.20 | 21.76 | 10.09 | 6.50 | .... |
| 77 | 17.00 | 0.12 | 21.76 | 9.78 | 5.05 | .... |
| 95 | 14.80 | 0.94 | 20.96 | 8.53 | 5.76 | .... |
| 110 | 12.52 | 0.28 | 19.68 | 10.06 | 5.35 | .... |
| 145 | 15.20 | 0.00 | 20.48 | 10.18 | 5.31 | .... |
| 145 | 17.24 | 0.20 | 21.28 | 10.12 | 5.29 | .... |
| 34 | 2.40 | 0.58 | 8.02 | 6.22 | 2.42 | .... |
| 104 | 2.18 | 1.58 | 8.08 | 5.90 | 2.51 | .... |
| 104 | 0.32 | 1.28 | 7.36 | 5.70 | 2.38 | .... |
| 104 | 0.44 | 2.12 | 8.00 | 5.54 | 2.98 | .... |
| 2 | 2.62 | 1.90 | 8.44 | 6.63 | 2.67 | .... |
| 34 | 1.22 | 2.66 | 8.44 | 6.71 | 4.22 | .... |
| 34 | 0.92 | 2.56 | 9.16 | 5.78 | 1.22 | .... |
| 34 | 1.22 | 2.34 | 8.36 | 5.66 | 4.34 | .... |
| 104 | 0.32 | 0.10 | 8.08 | 6.76 | 4.04 | .... |
| 1 | 1.02 | 0.26 | 8.80 | 5.65 | 4.43 | .... |
| 78 | 2.12 | 1.20 | 8.04 | 6.54 | 4.13 | .... |
| 78 | 2.80 | 1.82 | 8.80 | 6.12 | 4.10 | .... |
| 3 | 0.32 | 0.00 | 8.16 | 6.93 | 5.64 | .... |
| 3 | 0.48 | 0.18 | 8.20 | 6.17 | 4.43 | .... |
| 3 | 0.56 | 0.00 | 8.36 | 6.54 | 4.23 | .... |
| 28 | 7.04 | 0.00 | 12.48 | 10.00 | 6.51 | .... |
| 54 | 0.96 | 0.38 | 8.30 | 13.06 | 6.55 | .... |
| 54 | 0.20 | 0.88 | 8.84 | 10.32 | 6.77 | .... |
| 135 | 0.56 | 0.12 | 8.52 | 12.76 | 6.80 | .... |
| 135 | 0.24 | 0.16 | 8.00 | 12.04 | 7.27 | .... |
| 124 | 10.56 | 10.56 | 25.12 | 10.09 | 5.43 | .... |
| 148 | 10.72 | 10.04 | 24.64 | 9.00 | 6.35 | .... |

~~~~~ Indicates deficiencies.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No.     | Ratio, grade and brand |    |                                                                                     |
|--------------------|------------------------|----|-------------------------------------------------------------------------------------|
|                    | 5-                     | 3- | 2                                                                                   |
| 5209 <sup>1</sup>  | 10-                    | 6- | 4 AA Plant Food                                                                     |
| 5258               | 10-                    | 6- | 4 AA Plant Food                                                                     |
| 5871               | 10-                    | 6- | 4 AA Plant Food                                                                     |
| 5482               | 10-                    | 6- | 4 Agrico 1-2-3                                                                      |
| 5802               | 10-                    | 6- | 4 Agrico Country Club Fertilizer                                                    |
| 5750               | 10-                    | 6- | 4 Agrico Grass Food                                                                 |
| 5803               | 10-                    | 6- | 4 Agrico Insect Control with Fertilizer                                             |
| 5273               | 10-                    | 6- | 4 Agrico for Lawns, Trees & Shrubs                                                  |
| 5276               | 10-                    | 6- | 4 Agrico Weed Control with Fertilizer                                               |
| 5281 <sup>1</sup>  | 10-                    | 6- | 4 Agway Fertilizer from 60% Organic                                                 |
| 4932               | 10-                    | 6- | 4 Armour Lawn Special                                                               |
| 5824 <sup>1</sup>  | 10-                    | 6- | 4 Armour Vertagreen Double Duty Lawn<br>Treatment with 2, 4-D                       |
| 4931 <sup>1</sup>  | 10-                    | 6- | 4 Armour Vertagreen Triple Duty Lawn Treatment                                      |
| 5822               | 10-                    | 6- | 4 Armour Vertagreen for Turf (60% Organic N)                                        |
| 5823               | 10-                    | 6- | 4 Armour Vertagreen Turf Food w. Chlordane                                          |
| 4951 <sup>30</sup> | 10-                    | 6- | 4 Armour Vertagreen Turf & Tree Fertilizer                                          |
| 4856               | 10-                    | 6- | 4 Asgrow 3-Way Lawn Food with Bandane                                               |
| 5829               | 10-                    | 6- | 4 Asgrow Lawn Food                                                                  |
| 4959               | 10-                    | 6- | 4 C & J Hi Organic Fertilizer                                                       |
| 5878               | 10-                    | 6- | 4 Cascio's High Organic Lawn Food                                                   |
| 5175               | 10-                    | 6- | 4 Conn. Nurserymen's Ass'n. 3 in 1 Crabgrass<br>Preventer with Dacthal & Heptachlor |
| 4879               | 10-                    | 6- | 4 Corenco Golf & Lawn Special                                                       |
| 4956 <sup>1</sup>  | 10-                    | 6- | 4 Corenco Golf & Lawn Special                                                       |
| 5021 <sup>1</sup>  | 10-                    | 6- | 4 Corenco Golf & Lawn Special                                                       |
| 4966               | 10-                    | 6- | 4 Corenco Golf & Lawn Special-Crabgrass<br>Control                                  |
| 5014 <sup>1</sup>  | 10-                    | 6- | 4 Corenco Fertilizer (50% Nit. is Organic)                                          |
| 5343               | 10-                    | 6- | 4 Corenco Fertilizer (50% Nit. is Organic)                                          |
| 5700               | 10-                    | 6- | 4 Corenco Pro-Grass                                                                 |
| 4973               | 10-                    | 6- | 4 Country Club Lawn Food                                                            |
| 5352               | 10-                    | 6- | 4 Danbury Garden Center Lawn & Tree Food                                            |
| 5695 <sup>1</sup>  | 10-                    | 6- | 4 Davco 3-G Granulated Fertilizer                                                   |
| 4914               | 10-                    | 6- | 4 Deerfield Lawn Food                                                               |
| 5712               | 10-                    | 6- | 4 Eastern States Lawn Special with 2.4 Mg                                           |
| 5261 <sup>1</sup>  | 10-                    | 6- | 4 EnVee Weed & Feed                                                                 |
| 4909               | 10-                    | 6- | 4 Espoma Turf Tone                                                                  |
| 5215 <sup>1</sup>  | 10-                    | 6- | 4 Estate Green Fertilizer                                                           |
| 5556 <sup>1</sup>  | 10-                    | 6- | 4 Ezzell's Verdo Lawn Food (60% Nit. is Org.)                                       |
| 5204 <sup>1</sup>  | 10-                    | 6- | 4 Farmingdale 3 in 1 Triple Action                                                  |
| 5590               | 10-                    | 6- | 4 Federal Lawn Life Plant Food Special "75"                                         |
| 5589               | 10-                    | 6- | 4 Federal Lawn Life Plant Food Premium "150"                                        |
| 5151               | 10-                    | 6- | 4 Finelawn 3 in 1 Lawn Food                                                         |

\* Small package sample.

/ Unregistered.

<sup>30</sup> Iron: Guaranteed, 0.10%; found, 2.71%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 6           | 0.32                            | 0.08   | 10.16                         | 6.07                                        | 4.55                                    | ....                  |
| 6           | 2.00                            | 0.14   | 9.68                          | 6.69                                        | 4.54                                    | ....                  |
| 6           | 0.40                            | 0.00   | <u>10.32</u>                  | 5.84                                        | 4.04                                    | ....                  |
| 6           | 2.74                            | 3.58   | 11.36                         | 6.72                                        | 4.92                                    | ....                  |
| 6           | 3.18                            | 2.10   | 10.32                         | 6.04                                        | 4.27                                    | ....                  |
| 6           | 0.52                            | 3.64   | 10.40                         | 6.30                                        | 4.68                                    | ....                  |
| 6           | 4.68                            | 0.28   | 10.48                         | 6.03                                        | 4.22                                    | ....                  |
| 6           | 4.56                            | 0.40   | 10.24                         | 6.03                                        | 4.14                                    | ....                  |
| 6           | 4.56                            | 0.48   | 10.32                         | 6.01                                        | 4.37                                    | ....                  |
| 3           | 1.76                            | 4.20   | 10.24                         | 6.44                                        | 4.53                                    | ....                  |
| 11          | 0.72                            | 0.18   | 10.42                         | 6.41                                        | 4.17                                    | ....                  |
| 11          | 9.28                            | 0.40   | 11.52                         | 5.54                                        | 4.06                                    | ....                  |
| 11          | 9.92                            | 0.16   | 12.96                         | <del>8.64</del>                             | 8.05                                    | ....                  |
| 11          | 1.44                            | 3.66   | 9.12                          | 7.64                                        | 4.35                                    | ....                  |
| 11          | 0.24                            | 1.48   | <u>10.00</u>                  | 6.02                                        | 4.05                                    | ....                  |
| 11          | 1.16                            | 1.56   | 8.48                          | 6.46                                        | 5.56                                    | ....                  |
| 12          | 6.00                            | 0.22   | <u>9.82</u>                   | 5.99                                        | <u>2.82</u>                             | ....                  |
| 12          | 0.16                            | 0.00   | <u>10.40</u>                  | 6.07                                        | <u>4.14</u>                             | ....                  |
| 24          | 6.24                            | 0.82   | 14.00                         | 6.22                                        | 4.02                                    | ....                  |
| 27          | 2.26                            | 3.58   | 10.00                         | 6.51                                        | 4.09                                    | ....                  |
| 24          | 3.20                            | 0.40   | 6.00                          | 6.73                                        | 3.31                                    | ....                  |
| 34          | 3.82                            | 1.06   | <u>10.08</u>                  | 6.23                                        | <u>4.24</u>                             | ....                  |
| 34          | 3.84                            | 0.90   | 10.00                         | 6.13                                        | 4.31                                    | ....                  |
| 34          | 3.20                            | 1.80   | <u>9.32</u>                   | 7.97                                        | 4.11                                    | ....                  |
| 34          | 3.36                            | 1.34   | 8.16                          | 6.04                                        | 4.04                                    | ....                  |
| 34          | 1.36                            | 3.76   | <u>10.08</u>                  | 6.56                                        | 4.34                                    | ....                  |
| 34          | 3.12                            | 1.54   | 10.00                         | 6.30                                        | 4.09                                    | ....                  |
| 34          | 0.72                            | 4.22   | 8.64                          | 6.92                                        | 4.27                                    | ....                  |
| 89          | 0.00                            | 1.80   | <u>10.08</u>                  | 6.03                                        | 4.40                                    | ....                  |
| 36          | 4.02                            | 1.34   | 10.00                         | 7.04                                        | 4.24                                    | ....                  |
| 63          | 0.72                            | 0.00   | 10.00                         | 6.63                                        | 4.36                                    | ....                  |
| 103         | 1.60                            | 1.08   | 10.16                         | 6.42                                        | 4.58                                    | ....                  |
| 3           | 1.76                            | 2.22   | 10.00                         | 5.82                                        | 4.37                                    | 3.96                  |
| 77          | 1.52                            | 0.00   | 10.88                         | 7.92                                        | 4.00                                    | ....                  |
| 44          | 1.92                            | 2.52   | 11.28                         | 6.28                                        | 4.68                                    | ....                  |
| 45          | 0.40                            | 0.08   | 10.64                         | 5.92                                        | 5.01                                    | ....                  |
| 47          | 2.64                            | 1.86   | 9.12                          | 7.10                                        | 5.96                                    | ....                  |
| 51          | 7.92                            | 0.28   | 13.68                         | 6.52                                        | 5.39                                    | ....                  |
| 53          | 4.32                            | 0.84   | 11.20                         | 6.95                                        | 4.27                                    | ....                  |
| 53          | 3.36                            | 1.28   | 10.64                         | 6.64                                        | 4.38                                    | ....                  |
| 18          | 5.48                            | 1.64   | 10.24                         | 6.14                                        | 4.02                                    | ....                  |

~~~~~ Indicates deficiencies.

¹ State purchase.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand |
|--------------------|--|
| 5149/ | 10- 6- 4 Finelawn (25% Nit. is Org.) |
| 5150/ | 10- 6- 4 Finelawn Weed & Feed Lawn Food w. 2, 4-D |
| 5152/ | 10- 6- 4 Garden Exchange Inc. Lawn Food |
| 4881 | 10- 6- 4 Glen Terrace Lawn Food |
| 5958 | 10- 6- 4 G & O Hyganic Lawn Food |
| 5487/ | 10- 6- 4 G & O Lawn, Tree & Shrub Food (35% Org. Nit) |
| 5749/ | 10- 6- 4 G & O Turf Food & Insecticide w. Chlordane |
| 5348 | 10- 6- 4 Grand Union Brand Lawn & Garden Fertilizer |
| 5378 | 10- 6- 4 Greenlife Turf & Tree Food |
| 5642/ | 10- 6- 4 Green Ribbon Formula 25 Lawn Food |
| 5123 | 10- 6- 4 Green Ribbon Lawn Food |
| 4961 | 10- 6- 4 Gro Fast Lawn Food |
| 5641 | 10- 6- 4 Hart's Crabgrass Killer & Lawn Fertilizer |
| 5615 | 10- 6- 4 Hart's Lawn Food |
| 5354 | 10- 6- 4 Hart's Two for One |
| 5397 | 10- 6- 4 Heritage House Three In One |
| 5118/ | 10- 6- 4 Hess Quality Approved Lawn Master Turf Food |
| 4870/ | 10- 6- 4 Holiday New 3-Way Lawn Treat |
| 4813 | 10- 6- 4 Homestead Farm Style Fertilizer |
| 5167 | 10- 6- 4 Homestead Weed & Feed Fertilizer |
| 5554 | 10- 6- 4 Hubbard-Hall 3-Way Turf 'N Tree Food |
| 4983 | 10- 6- 4 Hubbard-Hall Turf 'N Tree Food |
| 4828 | 10- 6- 4 HH Turf 'N Tree Food with Insect Control |
| 5373 | 10- 6- 4 HH 50% Natural Organic WION |
| 5393 | 10- 6- 4 HH 50% Natural Organic WION |
| 5593 | 10- 6- 4 Just Right Turf Food |
| 5459 ¹ | 10- 6- 4 Lawn Craft Turf Food |
| 6101 | 10- 6- 4 Lawn Craft 50% Natural Organic |
| 5020 | 10- 6- 4 Lawn Craft Turf Fertilizer (50% Nit. is Org.) |
| 6102 | 10- 6- 4 Lawn Craft (50% Nit. is Organic) |
| 6102 | 10- 6- 4 Lawn Craft (50% Nit. is Organic) |
| 5510 | 10- 6- 4 Lawn Craft Turf Food 50% Org. Roto Blend |
| 6104 | 10- 6- 4 Lawn Craft (50% Nit. is Organic) |
| 5840 | 10- 6- 4 Lawn Master Turf Food |
| 5842 | 10- 6- 4 Lawn Master Turf Food 100% Organic |
| 5270 | 10- 6- 4 Liberty Fertilizer |
| 4979/ | 10- 6- 4 Liberty Lawn Food |
| 4855 | 10- 6- 4 Luzerne Lawn Food |
| 5502 | 10- 6- 4 Loft's for Turf |
| 5479 | 10- 6- 4 McArdle's Lawn & Tree Food |
| 4854/ ¹ | 10- 6- 4 Old Fox Fertilizer |
| 5185 | 10- 6- 4 Patco Chek Azak plus Chlordane |
| 5186 | 10- 6- 4 Patco Sod Maker |
| 5347 | 10- 6- 4 Perk-Up Lawn Food |
| 5645 | 10- 6- 4 Perk-Up Lawn Food w. Crabgrass Preventer |

* Small package sample.

/ Unregistered.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 18 | 1.76 | 1.04 | 10.24 | 6.38 | 3.72 | .... |
| 18 | 3.74 | 0.42 | 10.24 | 6.02 | 4.08 | .... |
| 19 | 3.54 | 1.42 | 9.68 | 6.69 | 4.19 | .... |
| 19 | 4.28 | 1.40 | 10.08 | 6.08 | 4.28 | .... |
| 62 | 0.34 | 2.70 | 10.88 | 5.84 | 4.95 | .... |
| 62 | 1.20 | 2.48 | 10.00 | 6.32 | 4.61 | .... |
| 62 | 1.76 | 1.14 | 8.64 | 7.86 | 4.67 | .... |
| 65 | 0.72 | 1.64 | 9.20 | 6.11 | 4.46 | .... |
| 66 | 7.96 | 1.16 | 10.88 | 5.88 | 4.10 | .... |
| 67 | 1.44 | 0.24 | 9.60 | 6.93 | 4.45 | .... |
| 67 | .... | 0.82 | 10.08 | 6.61 | 4.94 | .... |
| 68 | 1.28 | 0.14 | 10.38 | 6.32 | 4.41 | .... |
| 71 | 5.34 | 0.50 | 9.76 | 6.53 | 4.49 | .... |
| 71 | 4.88 | 1.02 | 11.04 | 6.72 | 4.15 | .... |
| 71 | 7.04 | 0.24 | 10.72 | 7.11 | 4.90 | .... |
| 73 | 8.96 | 0.78 | 12.00 | 5.71 | 4.32 | .... |
| 53 | 0.32 | 0.00 | 11.04 | 5.81 | 4.11 | .... |
| 86 | 7.60 | 0.10 | 9.76 | 5.76 | 5.49 | .... |
| 6 | 0.24 | 0.00 | 10.24 | 5.89 | 4.02 | .... |
| 6 | 4.28 | 0.68 | 10.64 | 6.73 | 4.04 | .... |
| 78 | 2.32 | 2.84 | 10.40 | 6.81 | 5.14 | .... |
| 78 | 1.98 | 3.22 | 9.44 | 6.72 | 5.29 | .... |
| 78 | 3.04 | 3.84 | 11.28 | 6.67 | 4.43 | .... |
| 78 | 0.00 | 4.86 | 11.02 | 8.83 | 3.52 | .... |
| 78 | 0.96 | 5.04 | 10.48 | 5.87 | 4.32 | .... |
| 69 | 0.80 | 3.60 | 10.64 | 6.23 | 4.15 | .... |
| 78 | 2.00 | 0.00 | 10.08 | 5.98 | 4.14 | .... |
| 78 | 1.28 | 5.44 | 11.52 | 6.20 | 4.25 | .... |
| 78 | 5.92 | 2.72 | 10.56 | 6.98 | 4.60 | .... |
| 78 | 0.80 | 5.58 | 11.20 | 6.10 | 4.17 | .... |
| 78 | 4.16 | 5.52 | 10.64 | 5.69 | 4.55 | .... |
| 78 | 3.68 | 2.14 | 10.00 | 6.19 | 4.10 | .... |
| 78 | 1.12 | 5.28 | 11.28 | 6.98 | 4.55 | .... |
| 53 | 0.56 | 0.24 | 10.56 | 5.80 | 4.02 | .... |
| 53 | 4.00 | 2.18 | 8.64 | 7.37 | 4.12 | .... |
| 78 | 1.04 | 0.10 | 10.58 | 6.22 | 4.02 | .... |
| 78 | 1.12 | 1.48 | 10.00 | 6.52 | 5.94 | .... |
| 92 | 0.48 | 0.00 | 9.20 | 6.31 | 4.66 | .... |
| 91 | 3.50 | 2.58 | 10.08 | 5.94 | 4.85 | .... |
| 93 | 3.68 | 1.30 | 8.40 | 7.33 | 4.45 | .... |
| 104 | 0.48 | 0.00 | 10.00 | 6.32 | 4.72 | .... |
| 108 | 5.28 | 0.38 | 10.06 | 6.61 | 4.46 | .... |
| 108 | 3.22 | 4.06 | 10.48 | 6.22 | 4.38 | .... |
| 111 | 1.92 | 0.12 | 10.00 | 6.16 | 4.17 | .... |
| 111 | 3.20 | 1.48 | 9.64 | 5.83 | 4.08 | .... |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station<br>No.      | Ratio, grade and brand |                                                                             |
|---------------------|------------------------|-----------------------------------------------------------------------------|
| 5259/               | 10- 6- 4               | Perk-Up Special Lawn Food (25% Org. Nit.)                                   |
| 5351/               | 10- 6- 4               | Plantation Crabgrass Preventer & Lawn Food                                  |
| 4876                | 10- 6- 4               | Plantation Quality Fertilizer                                               |
| 5350/               | 10- 6- 4               | Plantation Weed Killer & Lawn Food                                          |
| 5743                | 10- 6- 4               | Renzulli Bros. Lawn Food                                                    |
| 4846                | 10- 6- 4               | Sears Crabgrass Killer & Fertilizer                                         |
| 5257*               | 10- 6- 4               | Sears Evergreen Food                                                        |
| 5300                | 10- 6- 4               | Sears Hi-Organic Lawn Food                                                  |
| 5301                | 10- 6- 4               | Sears Plant Food                                                            |
| 5374                | 10- 6- 4               | Sears Plant Food                                                            |
| 5377*               | 10- 6- 4               | Sears Plant Food                                                            |
| 4822 <sup>31</sup>  | 10- 6- 4               | Squire Applegate High Organic Nitrogen                                      |
| 5120/ <sup>1</sup>  | 10- 6- 4               | State of Conn. (25% Synt. Organic O WION)                                   |
| 5460/               | 10- 6- 4               | State of Conn. (25% Synt. Organic O WION)                                   |
| 5169/               | 10- 6- 4               | Suburban Pride Lawn Food with Weed Killer                                   |
| 5170                | 10- 6- 4               | Suburban Pride Triple Action Crabgrass<br>Killer plus Lawn Food Insecticide |
| 5116/               | 10- 6- 4               | Super Spur Lawn Food                                                        |
| 4883                | 10- 6- 4               | Super Turf King Lawn Food                                                   |
| 5742/               | 10- 6- 4               | Valu-Gro                                                                    |
| 5520                | 10- 6- 4               | Vigoro Turf Food for Professionals w. 1.8 Mg                                |
| 5945                | 10- 6- 4               | Vitogro Triple-Acting Crabgrass Control                                     |
| 5016                | 10- 6- 4               | Weed & Feed with 2, 4-D                                                     |
| 5833                | 10- 6- 4               | Wonderlawn Lawn Food with 3.0 Mg                                            |
| 5832                | 10- 6- 4               | Wonderlawn All-In-One (100% Org. Nit.)                                      |
| 5837/ <sup>32</sup> | 10- 6- 4               | Wonderlawn Lawn Food w. Org. Nit.                                           |
| 4827                | 10- 6- 4               | Woodruff's Tuf Turf Turf Food                                               |
| 5573                | 20-12- 8               | Fer Mel Fairway Turf Food                                                   |
|                     | <u>5- 4- 0</u>         |                                                                             |
| 5830                | 5- 4- 0                | Breck's Greenite                                                            |
| 5592                | 5- 4- 0                | Hart's All-Organic Plant Food                                               |
| 5723                | 5- 4- 0                | Hubbard-Hall Nitrogranic                                                    |
| 5018                | 5- 4- 0                | Hubbard-Hall Nitrogranic with 2, 4-D & Silvex                               |
| 5933                | 5- 4- 0                | Lawn Craft VFT Turf Food                                                    |
| 5843/               | 5- 4- 0                | Lawn Master All Organic Plant Food                                          |
| 5525                | 5- 4- 0                | Lebanon Turf Organic                                                        |
| 4845                | 5- 4- 0                | Sears All Organic Lawn Food                                                 |
| 5256                | 5- 4- 0                | Sears Crabgrass Plant Killer in Organic Food                                |
| 5253                | 5- 4- 0                | Sears Weed Killer in Organic Lawn Food                                      |

\* Small package sample. / Unregistered.

<sup>31</sup> Boron: Guaranteed, 0.02%; found, 0.00%.



TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 111         | 3.04                            | 0.24   | 10.16                         | 7.05                                        | 5.70                                    | ....                  |
| 18          | 6.30                            | 1.62   | 11.04                         | 5.90                                        | 4.24                                    | ....                  |
| 18          | 1.92                            | 0.00   | <u>9.36</u>                   | 6.42                                        | 5.50                                    | ....                  |
| 18          | 2.40                            | 0.00   | <u>10.40</u>                  | <u>5.62</u>                                 | 4.14                                    | ....                  |
| 119         | 0.48                            | 2.22   | 10.06                         | <u>6.20</u>                                 | 4.14                                    | ....                  |
| 124         | 5.12                            | 0.30   | <u>9.82</u>                   | 7.55                                        | 7.11                                    | ....                  |
| 124         | 4.00                            | 1.66   | 10.08                         | 6.93                                        | 4.04                                    | ....                  |
| 124         | 3.90                            | 1.46   | <u>9.68</u>                   | 6.00                                        | 4.05                                    | ....                  |
| 124         | 1.50                            | 0.96   | <u>10.00</u>                  | 6.41                                        | 4.05                                    | ....                  |
| 124         | 2.07                            | 0.37   | <u>9.80</u>                   | 6.79                                        | 5.03                                    | ....                  |
| 124         | 4.10                            | 1.50   | 10.00                         | 6.87                                        | 5.11                                    | ....                  |
| 3           | 0.80                            | 1.86   | 10.08                         | 5.93                                        | 4.63                                    | ....                  |
| 78          | 2.64                            | 0.12   | 10.40                         | 6.59                                        | 5.14                                    | ....                  |
| 78          | 2.56                            | 0.00   | 10.40                         | 6.00                                        | 5.28                                    | ....                  |
| 73          | 1.76                            | 0.10   | 10.50                         | <u>5.37</u>                                 | 4.30                                    | ....                  |
| 73          | 3.03                            | 1.74   | 10.88                         | 6.71                                        | 4.79                                    | ....                  |
| 1           | 0.36                            | 0.20   | 11.12                         | <u>5.55</u>                                 | 4.99                                    | ....                  |
| 1           | 0.44                            | 0.28   | 11.28                         | <u>5.57</u>                                 | 4.73                                    | ....                  |
| 141         | 0.64                            | 0.22   | 10.00                         | <u>6.10</u>                                 | 4.25                                    | ....                  |
| 135         | 0.88                            | 1.06   | 10.32                         | 6.88                                        | 4.45                                    | 1.73                  |
| 135         | 6.08                            | 3.58   | 10.88                         | 4.67                                        | 6.53                                    | ....                  |
| 73          | 5.82                            | 0.90   | 11.76                         | 6.95                                        | 5.44                                    | ....                  |
| 146         | 0.64                            | 2.78   | 10.08                         | 6.45                                        | 4.28                                    | 3.52                  |
| 146         | 2.56                            | 2.92   | <u>9.76</u>                   | <u>4.47</u>                                 | 5.35                                    | ....                  |
| 146         | 1.76                            | 2.30   | <u>8.88</u>                   | 5.80                                        | 6.39                                    | ....                  |
| 148         | 4.32                            | 0.85   | <u>10.32</u>                  | 5.89                                        | 4.61                                    | ....                  |
| 97          | 11.68                           | 1.00   | 20.20                         | 11.84                                       | 8.69                                    | ....                  |
| 12          | 0.28                            | 5.12   | 5.40                          | 6.45                                        | ....                                    | ....                  |
| 71          | 0.32                            | 5.06   | 5.48                          | 6.23                                        | ....                                    | ....                  |
| 78          | 0.42                            | 4.40   | 5.54                          | 6.41                                        | ....                                    | ....                  |
| 78          | 0.54                            | 4.50   | 5.20                          | 4.27                                        | ....                                    | ....                  |
| 78          | 0.28                            | 5.08   | 5.68                          | 4.89                                        | ....                                    | ....                  |
| 53          | 1.04                            | 4.20   | 5.80                          | 5.89                                        | ....                                    | ....                  |
| 88          | 0.58                            | 4.82   | 5.56                          | 6.48                                        | ....                                    | ....                  |
| 124         | 0.78                            | 4.70   | 5.64                          | 6.31                                        | ....                                    | ....                  |
| 124         | 0.70                            | 4.38   | 5.40                          | 5.28                                        | ....                                    | ....                  |
| 124         | 0.30                            | 4.86   | 5.16                          | 6.24                                        | ....                                    | ....                  |

~~~~ Indicates deficiencies.

¹ State purchase.³² Boron: Guaranteed, 0.0575%; found, 0.00%.

Zinc: Guaranteed, 0.033%; found, 0.00%.

Iron: Guaranteed, 0.031%; found, 0.30%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Ratio, grade and brand | |
|--------------------|-----------------------------|--|
| | <u>7-10- 5</u> | |
| 5388* | 7-10- 5 | Emerald Green Rose Food |
| 5335* | 7-10- 5 | Finelawn Rose Food |
| 5327/ | 7-10- 5 | Finelawn Rose Food |
| 5663 | 7-10- 5 | Hubbard-Hall Rose Food |
| | <u>12- 5- 7</u> | |
| 5461/ | 12- 5- 7 | Emerald Green Lawn Food |
| 4987 | 12- 5- 7 | Golden Vigoro |
| 5503 | 12- 5- 7 | Golden Vigoro Lawn Food with End-O-Pest |
| 5017 | 12- 5- 7 | Vigoro Lawn Weeder & Feeder |
| | <u>17- 4- 4</u> | |
| 5765/ | 17- 4- 4 | Adams Nursery Mart Weed & Feed Granules |
| 5722 | 17- 4- 4 | Asgrow Weed Nix Lawn Food w. 2, 4-D & Silvex |
| 5954 | 17- 4- 4 | Asgrow Weed Nix Lawn Food w. 2, 4-D & Silvex |
| 5153 | 17- 4- 4 | Garden Exchange Inc., Weed & Feed Granules |
| 5458/ | 17- 4- 4 | Glen Terrace Nurseries Weed & Feed Granules |
| 5361 | 17- 4- 4 | Platt's Weed & Feed Granules |
| | <u>Miscellaneous Ratios</u> | |
| 5271/ | 1. 5-. 5-7 | Fertal-Gro (T Mulch Ground Tobacco Stems) |
| 5852 | 3- 2- 1 | Espoma Organic |
| 5808 | 3- 2- 3 | Fertrell, Super |
| 5847 | 3- 4- 2 | Miracle Orga-Vite Lawn Fertilizer |
| 5500 | 4- 1- 2 | Davey Arbor Green Tree Food |
| 5465 | 4- 6- 2 | Patco's Allganic |
| 5488 ³³ | 4- 6- 4 | Holly-Tone |
| 5521* | 4- 6-10 | Hoffman Azalea & Evergreen Food |
| 5647 | 4-10- 0 | Liberty Fertilizer Swift Sure |
| 5485 | 4-10- 6 | Bulb-Tone |
| 4831* | 4-10-10 | Black Magic African Violet Booster |
| 5304* | 4-12- 8 | Sears Bulb Food |
| 5214 | 4-16-20 | Old Fox Fertilizer |
| 4866* | 5- 1- 1 | Atlas Fish Emulsion Fertilizer |
| 5541* | 5- 2- 2 | Fish Emulsion Fertilizer |
| 5597 | 5- 4- 4 | Brookside's Nature's Evergreen |
| 4927* | 5- 5- 1 | New Era Fish Plant Food |
| 4928 | 5- 8- 7 | Corenco Fertilizer |
| 5649 | 5- 8- 7 | Liberty Fertilizer |
| 5613/ | 5-10- 3 | Electra Plant Food |

* Small package sample. / Unregistered.

³³ Iron: Guaranteed, 0.01%; found, 0.71%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 54 | 0.88 | 2.32 | 6.48 | 9.38 | 6.78 | .... |
| 18 | .... | 0.10 | 4.56 | 13.75 | 3.23 | .... |
| 18 | 1.28 | 0.22 | 8.30 | 12.78 | 5.43 | .... |
| 78 | 2.04 | 1.60 | 7.00 | 9.93 | 5.80 | .... |
| 54 | 0.80 | 0.74 | 12.50 | 4.88 | 7.33 | .... |
| 135 | 6.42 | 4.46 | 12.16 | 5.18 | 8.11 | .... |
| 135 | 6.48 | 4.72 | 12.56 | 5.17 | 7.35 | .... |
| 135 | 7.86 | 3.72 | 12.72 | 5.10 | 7.26 | .... |
| 19 | 17.12 | 0.00 | 19.52 | 5.19 | 4.20 | .... |
| 12 | 9.02 | 1.86 | 17.44 | 6.64 | 4.44 | .... |
| 12 | 8.26 | 1.74 | 17.60 | 6.32 | 4.70 | .... |
| 56 | 15.36 | 0.00 | 17.52 | 4.00 | 4.13 | .... |
| 59 | 16.96 | 0.00 | 20.88 | 5.78 | 6.17 | .... |
| 114 | 17.64 | 0.00 | 21.20 | 5.09 | 5.15 | .... |
| 41 | .... | .... | 1.50 | 0.75 | 7.64 | .... |
| 44 | 0.48 | 1.64 | 4.56 | 3.46 | 1.15 | .... |
| 101 | 0.42 | 2.66 | 3.08 | 1.64 | 3.10 | .... |
| 107 | 1.06 | 1.38 | 3.00 | 5.33 | 2.56 | .... |
| 37 | 3.86 | 1.14 | 5.72 | 1.78 | 4.12 | .... |
| 108 | 0.16 | 3.54 | 4.26 | 6.25 | 2.04 | .... |
| 44 | 0.52 | 1.28 | 5.56 | 6.49 | 6.04 | .... |
| 75 | 0.16 | 0.94 | 4.92 | 10.26 | 10.61 | .... |
| 78 | 0.72 | 0.58 | 4.00 | 9.76 | .... | .... |
| 44 | 0.52 | 1.52 | 5.48 | 10.87 | 6.26 | .... |
| 17 | 4.40 | 0.00 | 4.40 | 10.38 | 10.43 | .... |
| 124 | 1.36 | 0.56 | 4.80 | 11.55 | 8.14 | .... |
| 104 | 0.16 | 0.00 | 4.48 | 16.04 | 20.72 | .... |
| 14 | 4.16 | 0.46 | 5.60 | 1.09 | 0.95 | .... |
| 135 | 4.00 | 0.50 | 5.30 | 5.72 | 2.70 | .... |
| 22 | 0.40 | 5.52 | 5.92 | 4.64 | 4.16 | .... |
| 31 | 3.36 | 1.08 | 5.08 | 5.51 | 1.99 | .... |
| 34 | 0.24 | 0.00 | 5.00 | 8.13 | 7.46 | .... |
| 78 | 0.96 | 0.24 | 6.08 | 8.02 | 7.80 | .... |
| 138 | 0.34 | 2.30 | 5.28 | 10.65 | 3.07 | .... |

~~~~~ Indicates deficiencies.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station<br>No.     | Ratio, grade and brand |                                                          |
|--------------------|------------------------|----------------------------------------------------------|
| 5660/              | 5-10- 3                | Electra Plant Food                                       |
| 5136*              | 5-12- 9                | New Era African Violet Food                              |
| 5380 <sup>34</sup> | 6- 3- 0                | Milorganite                                              |
| 5956 <sup>35</sup> | 6- 3- 0                | Milorganite                                              |
| 5559*              | 6- 6- 4                | Espoma Rose Food                                         |
| 5851               | 6- 6- 4                | Espoma Rose Food                                         |
| 5591               | 6- 7- 4                | Lawncraft Shade Tree & Ornamental Shrub Food             |
| 5640 <sup>36</sup> | 6- 7- 5                | Lebanon Azalea & Evergreen Food                          |
| 5334*              | 6- 8- 5                | Hoffman Concentrated Organic                             |
| 5955               | 6- 8- 6                | Bartlett Green Tree Food                                 |
| 5278*              | 6- 9- 5                | Patco Rose Food                                          |
| 5218               | 6-10-10                | Old Fox Fertilizer with 1.2 Mg                           |
| 5656               | 6-12- 4                | Lawncraft Seed Starter                                   |
| 4963*              | 7- 6-19                | Hyponex All Purpose Plant Food                           |
| 5486 <sup>37</sup> | 7- 8- 5                | G & O Rose Food                                          |
| 5187*              | 7- 8- 7                | Patco Broadleaved Evergreen Shrub Food                   |
| 5464               | 7- 8- 7                | Patco Shrub Food                                         |
| 5882 <sup>38</sup> | 7- 9- 5                | Cascio's Rose Food                                       |
| 5740*              | 7-10- 4                | Hubbard-Hall Bulb Food                                   |
| 5644               | 7-40- 6                | Magamp with K and 12.0 Mg                                |
| 5664*              | 8- 8-12                | Happy Jo Liquid Concentrate Plant Food                   |
| 5173 <sup>39</sup> | 8-10- 4                | F & B Rose Food                                          |
| 5172 <sup>40</sup> | 8-10- 6                | ReVive Rose Food                                         |
| 5773               | 8-10-10                | Liberty Super Spud with 1.2 Mg                           |
| 5217               | 8-10-10                | Old Fox Fertilizer with 1.2 Mg                           |
| 5523               | 8-40- 0                | Magamp                                                   |
| 5932               | 9- 5- 3                | Lawn Craft VFT Fortified Turf Food                       |
| 5184               | 9- 8- 3                | Patco Lawn Food                                          |
| 5566/              | 9-45-15                | Peter's Plant Starter                                    |
| 5202               | 10- 7- 5               | Patco Evergreen Food                                     |
| 5243               | 10- 8- 2               | Corenco Timberline Complete Tree Food                    |
| 5220/              | 10- 8- 7               | Old Fox Tree Food                                        |
| 5809 <sup>41</sup> | 10- 8- 7               | Ortho Liquid Evergreen & Azalea Food                     |
| 5200               | 10- 8- 8               | Agrico A. C. R. Fertilizer                               |
| 4853               | 11- 4- 6               | Golden Vigoro Lawn Food w. Crabgrass &<br>Insect Control |
| 5492               | 12- 7- 4               | Greenlife Azalea Food                                    |
| 4957               | 12-16- 8               | Greenfield Double Action Evergreen &<br>Azalea Food      |

\* Small package sample. / Unregistered.

<sup>34</sup> Iron: Guaranteed, 3.0%; found, 4.13%.<sup>35</sup> Iron: Guaranteed, 3.0%; found, 4.21%.<sup>36</sup> Iron: Guaranteed, 0.075%; found, 2.22%.<sup>37</sup> Iron: Guaranteed, 0.15%; found, 1.58%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 138         | 0.62                            | 2.34   | 5.36                          | 10.30                                       | 3.68                                    | ....                  |
| 31          | 0.24                            | 0.00   | 6.72                          | 13.70                                       | 9.64                                    | ....                  |
| 125         | 0.38                            | 5.38   | <u>5.76</u>                   | 3.47                                        | ....                                    | ....                  |
| 125         | 0.40                            | 5.60   | 6.00                          | 4.45                                        | ....                                    | ....                  |
| 44          | 0.30                            | 1.62   | 6.72                          | 6.23                                        | 5.23                                    | ....                  |
| 44          | 0.38                            | 1.74   | 6.92                          | 6.00                                        | 4.25                                    | ....                  |
| 78          | 1.44                            | 1.06   | 6.48                          | 7.12                                        | 4.62                                    | ....                  |
| 88          | 1.84                            | 1.18   | 7.74                          | 7.30                                        | 7.54                                    | ....                  |
| 75          | 0.46                            | 5.38   | 6.00                          | 8.52                                        | 5.25                                    | ....                  |
| 15          | 0.20                            | 0.90   | 5.90                          | 8.12                                        | 7.20                                    | ....                  |
| 108         | 0.00                            | 3.54   | 7.86                          | 9.39                                        | 5.00                                    | ....                  |
| 104         | 0.00                            | 0.34   | 6.40                          | <u>9.36</u>                                 | 10.56                                   | 2.26                  |
| 78          | 1.36                            | 0.00   | 6.96                          | <u>9.49</u>                                 | 4.26                                    | ....                  |
| 79          | 0.32                            | 0.00   | 7.00                          | <u>7.13</u>                                 | 20.10                                   | ....                  |
| 62          | 0.88                            | 1.82   | 7.64                          | 8.17                                        | 5.72                                    | ....                  |
| 108         | 0.56                            | 1.20   | 8.00                          | 8.49                                        | 7.09                                    | ....                  |
| 108         | 0.38                            | 1.00   | 7.96                          | <u>7.72</u>                                 | 7.74                                    | ....                  |
| 27          | 0.82                            | 2.16   | 8.32                          | <u>9.07</u>                                 | 6.73                                    | ....                  |
| 78          | 0.80                            | 2.28   | <u>6.52</u>                   | <u>9.21</u>                                 | 7.01                                    | ....                  |
| 63          | 1.16                            | 5.28   | 7.08                          | 44.56                                       | 6.46                                    | 12.10                 |
| 35          | 7.40                            | 0.00   | 8.24                          | 8.27                                        | 12.20                                   | ....                  |
| 48          | 2.40                            | 1.50   | 8.48                          | 10.84                                       | 4.77                                    | ....                  |
| 77          | 2.24                            | 1.50   | 8.92                          | <u>5.50</u>                                 | 6.20                                    | ....                  |
| 78          | 0.00                            | 0.00   | 8.04                          | 10.22                                       | 10.48                                   | 1.52                  |
| 104         | 0.16                            | 0.10   | <u>7.68</u>                   | 12.42                                       | 10.00                                   | 1.52                  |
| 63          | 0.04                            | 7.20   | 8.68                          | 44.55                                       | ....                                    | ....                  |
| 78          | 1.48                            | 7.84   | 9.56                          | 5.28                                        | 3.08                                    | ....                  |
| 108         | 1.52                            | 1.70   | 9.16                          | <u>7.74</u>                                 | 3.60                                    | ....                  |
| 112         | 0.24                            | 0.00   | 9.36                          | 45.32                                       | 15.53                                   | ....                  |
| 108         | 0.72                            | 0.90   | 10.08                         | 7.43                                        | 5.36                                    | ....                  |
| 34          | 3.44                            | 3.46   | <u>9.76</u>                   | 8.72                                        | 2.30                                    | ....                  |
| 104         | 0.80                            | 2.86   | <u>9.04</u>                   | <u>7.44</u>                                 | 7.18                                    | ....                  |
| 29          | 10.40                           | 0.00   | 10.80                         | 8.33                                        | 7.08                                    | ....                  |
| 6           | 3.34                            | 0.48   | <u>9.68</u>                   | <u>7.29</u>                                 | 8.55                                    | ....                  |
| 135         | 6.48                            | 4.48   | 12.16                         | 4.10                                        | 6.97                                    | ....                  |
| 66          | 7.44                            | 1.82   | <u>11.60</u>                  | <u>6.14</u>                                 | 4.61                                    | ....                  |
| 42          | 1.76                            | 0.16   | 14.40                         | 19.41                                       | 9.00                                    | ....                  |

~~~~~ Indicates deficiencies.

³⁸ Iron: Guaranteed, 1.5%; found, 1.70%.
Sulphur: Guaranteed, 3.0%; found, 6.56%.

³⁹ Iron: Guaranteed, 0.15%; found, 2.18%.

⁴⁰ Iron: Guaranteed, 0.25%; found, 0.28%.

⁴¹ Iron: Guaranteed, 0.40%; found, 0.44%.
Boron: Guaranteed, 0.02%; found, 0.02%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|--------------------|------------------------|---|
| 4878 | 14- 3- 3 | Scott's Halts Plus |
| 4852 | 14- 3- 3 | Scott's Turf Builder Plus 4 |
| 5349/ | 15- 7- 5 | Grand Union Brand Lightweight Lawn Fertilizer |
| 5481 | 16-11-13 | Scott's Dawn |
| 5029/ | 17- 6- 2 | Lively Lawn Food |
| 5711 | 18- 3- 5 | Corenco Weed-B-Done |
| 4851 ⁴² | 18- 6- 9 | Armour Vertagreen Lightweight Lawn Food
with Magnex and 1.2 Mg |
| 4943 | 20- 5- 5 | Scott's Turf Builder Plus 1 |
| 5275 | 20- 5- 5 | Scott's Turf Builder Plus 2 |
| 5568 | 20- 5-30 | Peter's |
| 5646/ | 20- 6- 4 | HH Fertilizer (100% Org. Nit.) |
| 5154 | 20-10- 8 | Asgrow Easy-Gro Lawn Food |
| 5296* | 20-10-15 | Instant Vigoro |
| 5949 | 22- 8- 4 | Asgrow Gro-Sod Lawn Food |
| 4910 | 23- 7- 7 | Scott's Turf Builder |
| 4877 | 25-12-10 | Fer-Mel Premium Lawn Food |
| 5575 | 25-12-12 | Mag-Gro Fairway Fertilizer |
| 5574 | 26-12-12 | Fer-Mel 50 Supreme Lawn Food |

* Small package sample. / Unregistered.

⁴² Iron: Guaranteed, 0.10%; found, 1.05%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 123 | 10.06 | 4.34 | 14.40 | 3.39 | 3.03 | .... |
| 123 | 9.04 | 3.84 | <u>13.84</u> | 3.04 | 3.03 | .... |
| 65 | 0.88 | 1.06 | <u>13.12</u> | 6.97 | 5.32 | .... |
| 123 | 10.50 | 4.16 | 16.08 | 11.06 | 13.48 | .... |
| 92 | 0.64 | 2.00 | <u>16.72</u> | 6.51 | 2.34 | .... |
| 34 | 13.76 | 1.32 | 18.00 | 3.92 | 6.07 | .... |
| 11 | 15.00 | 2.60 | 19.84 | 6.50 | 11.44 | 1.54 |
| 123 | .... | 5.84 | 20.48 | 4.98 | 5.04 | .... |
| 123 | 13.60 | 5.48 | 20.80 | 5.00 | 5.42 | .... |
| 112 | 9.60 | 0.00 | 20.08 | 4.86 | 30.63 | .... |
| 78 | 9.08 | 11.16 | 20.96 | <u>4.23</u> | 6.54 | .... |
| 12 | 8.64 | 2.20 | <u>19.04</u> | 9.96 | 8.47 | .... |
| 135 | 9.44 | 0.00 | 20.00 | 11.88 | 14.80 | .... |
| 12 | 13.44 | 2.08 | 22.56 | 8.52 | 4.03 | .... |
| 123 | 14.76 | 7.70 | 23.36 | 7.09 | 7.43 | .... |
| 97 | 18.88 | 0.00 | 25.60 | 13.51 | 10.61 | .... |
| 96 | 19.64 | 0.12 | <u>24.88</u> | <u>10.96</u> | 12.42 | .... |
| 97 | 14.24 | 10.28 | 27.84 | 7.33 | 13.02 | .... |

~~~~~ Indicates deficiencies.



TABLE 6.

## ANALYSES OF SHEEP MANURE, ETC.

| Station<br>No.    | Manufacturer, brand and dealer                                                                                                        |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 5205              | Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Caldor's, Norwalk.                                    |
| 5828              | Armour Sheep Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Alexander's, Milford.                                  |
| 5272              | Barnyard Gem Dehydrated Cow Manure. Farmer's Organic Linwood, N. C. Sampled at Holdridge Farm Nursery, Ledyard.                       |
| 4919              | Barnyard Gem Dehydrated Sheep Manure. Farmer's Organic, Linwood, N. C. Sampled at Clinton Grain Co., Inc., Clinton.                   |
| 5239              | Bovung. Walker-Gordon Laboratory Co., Plainsboro, N. J. Sampled at New Haven Rendering Co., West Haven.                               |
| 5614              | Bovung. Walker-Gordon Laboratory Co., Plainsboro, N. J. Sampled at A. N. Pierson, Inc., Cromwell.                                     |
| 4962              | Corenco Sheep Manure & Inert Matter. Consolidated Rendering Co., Boston, Mass. Sampled at A. S. Labieniec, Kensington.                |
| 5345 <sup>1</sup> | Fertal-Gro Cow Manure - Tobacco Stem Bedding. Eastern Dehydrating Co., Lexington, N. C. Sampled at The Goos Lumber Co., Danbury.      |
| 5475/             | Fertal-Gro Sheep Manure Compost. Eastern Dehydrating Co., Lexington, N. C. Sampled at Railroad Salvage, East Windsor.                 |
| 5741              | Fertal-Gro Sheep Manure & Tobacco Stem Bedding. Eastern Dehydrating Co., Lexington, N. C. Sampled at Nielsen's Garden Center, Darien. |
| 4952              | Fertie Composted Cow Manure. Organic Compost Corp. of Pa. Sampled at J. M. Fields Co., New Britain.                                   |

/ Unregistered.

<sup>1</sup> Chlorine: Found, 1.52%.

TABLE 6.

## ANALYSES OF SHEEP MANURE, ETC.

| Total Nitrogen<br>per cent |      | Phosphoric acid<br>per cent |                   |                    | Total Potash<br>per cent |      |          |
|----------------------------|------|-----------------------------|-------------------|--------------------|--------------------------|------|----------|
| F                          | G    | Citrate<br>insoluble        | Total<br>found    | Available<br>found | F                        | G    | per cent |
| 2.04                       | 2.00 | ....                        | 1.74 <sup>2</sup> | ....               | 2.70                     | 2.00 | 4.63     |
| 2.00                       | 1.25 | 0.25                        | 1.44              | 1.19 <sup>2</sup>  | 1.98                     | 2.00 | 18.64    |
| 1.84                       | 1.00 | 0.11                        | 1.01              | 0.90 <sup>2</sup>  | 11.31                    | 1.00 | 5.94     |
| 2.00                       | 1.00 | 0.13                        | 1.01              | 0.88 <sup>2</sup>  | 10.21                    | 1.00 | 5.89     |
| 2.04                       | 2.00 | 0.15                        | 1.59              | 1.44 <sup>2</sup>  | 2.01                     | 2.00 | 1.97     |
| 2.08                       | 2.00 | 0.14                        | 1.54              | 1.40 <sup>2</sup>  | 2.23                     | 2.00 | 1.58     |
| 1.88                       | 1.25 | ....                        | 1.86 <sup>2</sup> | ....               | 2.67                     | 2.00 | 22.58    |
| 2.04                       | 2.00 | 0.08                        | 1.14              | 1.06 <sup>2</sup>  | 7.65                     | 7.00 | 5.04     |
| 1.68                       | 1.50 | 0.10                        | 1.09              | 0.99 <sup>2</sup>  | 6.74                     | 5.00 | 6.04     |
| <u>1.80</u>                | 2.00 | 0.10                        | 0.92              | 0.82 <sup>2</sup>  | 9.00                     | 5.00 | 6.72     |
| 1.80                       | 1.00 | 0.22                        | 1.46              | 1.24 <sup>2</sup>  | 2.36                     | 1.00 | 32.09    |

~~~~~ Indicates deficiencies.

² Guaranteed, 1.00%.

TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

| Station
No. | Manufacturer, brand and dealer |
|----------------|---|
| 5476 | Fertilife Composted Manure. Organic Compost Corp.,
Oxford, Pa. Sampled at Barnes Bros. Nursery Co.,
Wallingford. |
| 4930 | Gardener's Composted Cow Manure. Organic Compost
Corp., Oxford, Pa. Sampled at J.M. Fields Co.,
Branford. |
| 5844 | Gardenure Composted Cow Manure. Organic Compost
Corp., Oxford, Pa. Sampled at King Cole of
Bridgeport, Inc., Bridgeport. |
| 5846 | Gardener's Composted Poultry Manure. Organic Compost
Corp., Oxford, Pa. Sampled at King Cole of
Bridgeport, Inc., Bridgeport. |
| 4988 | Gardener's Composted Sheep Manure. Organic Compost
Corp., Oxford, Pa. Sampled at G.E. Madison,
Southington. |
| 5745/ | Goulard & Olena, Inc., Skillman, N.J. Sampled at Ren-
zulli Bros. Garden Center, Norwalk. |
| 4944 | Hoffman Dehydrated Cow Manure. A.H. Hoffman, Inc.,
Landisville, Pa. Sampled at Barker's, Meriden. |
| 4980 | HH Composted Cow Manure. Hubbard-Hall Chemical Co.,
Waterbury, Conn. Sampled at Scata's Fair,
Wethersfield. |
| 5372* | HH Composted Cow Manure. Hubbard-Hall Chemical Co.,
Waterbury, Conn. Sampled at Edw. Malley Co.,
New Haven. |
| 4964* | HH Composted Sheep Manure. Hubbard-Hall Chemical Co.,
Waterbury, Conn. Sampled at Woolworth's, Berlin. |
| 5651 | HH Composted Sheep Manure. Hubbard-Hall Chemical Co.,
Waterbury, Conn. Sampled at Hubbard-Hall Chemical
Co., Portland. |

* Small package sample. / Unregistered.

³ Guaranteed, 2.00%.

TABLE 6.
ANALYSES OF SHEEP MANURE, ETC.

| Total Nitrogen
per cent | | Phosphoric acid
per cent | | | Total Potash
per cent | | Sand
per cent |
|----------------------------|------|-----------------------------|----------------|-------------------------|--------------------------|------|------------------|
| F | G | Citrate
insoluble | Total
found | Available
found | F | G | |
| 1.56 | 1.50 | 0.09 | 1.80 | <u>1.71³</u> | 1.66 | 1.00 | 37.98 |
| 1.64 | 0.50 | 0.16 | 1.33 | 1.17 ⁱ | 1.77 | 0.50 | 32.13 |
| 1.20 | 0.50 | 0.11 | 0.95 | 0.84 ¹ | 0.70 | 0.50 | 53.84 |
| 1.48 | 0.50 | 0.17 | 1.13 | 0.96 ¹ | 1.16 | 0.50 | 48.38 |
| 1.44 | 0.50 | 0.16 | 1.17 | 1.01 ² | 1.41 | 0.50 | 49.52 |
| 7.00 | 0.50 | 0.58 | 9.01 | 8.43 ¹ | 1.42 | 0.50 | ..... |
| 2.52 | 2.00 | 0.15 | 1.12 | 0.97 ² | 1.90 | 1.00 | 7.22 |
| 1.48 | 1.00 | 0.16 | 1.42 | 1.26 ² | 1.32 | 1.00 | 46.56 |
| 1.28 | 1.00 | 0.14 | 1.30 | 1.16 | 1.23 | 1.00 | 2.71 |
| 2.12 | 1.00 | 0.23 | 1.63 | 1.40 ² | 2.61 | 1.00 | 35.89 |
| 1.56 | 1.00 | 0.19 | 1.54 | 1.35 | 1.63 | 1.00 | 45.17 |

~~~~~ Indicates deficiencies.

<sup>1</sup> Guaranteed, 0.50%.

<sup>2</sup> Guaranteed, 1.00%.

TABLE 6.

## ANALYSES OF SHEEP MANURE, ETC.

| Station<br>No. | Manufacturer, brand and dealer                                                                                                                        |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4933           | Manure's Best Composted Cow Manure. Organic Compost Corp., Oxford, Pa. Sampled at Bradlee's, E. Haven.                                                |
| 5478/          | McNair's Organure Dehydrated Cow Manure. McNair Farms, Laurinbury, N.C. Sampled at Renzulli Bros. Garden Center, Norwalk.                             |
| 4969/          | O'C Brand Dehydrated Cow Manure. Farmers Organic Corp., Ransomville, N.Y. Sampled at Comstock Ferre & Co., Wethersfield.                              |
| 5294/          | Our Ranch Dehydrated Cow Manure. Thomason Ranch, Div. Thomason Industries, Inc., Fayetteville, N.C. Sampled at Moore's Super Stores, Inc., Newington. |
| 5763/          | Ramshorn Brand Sheep Manure. Natural Plant Food Co., Inc., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.                       |
| 4847           | Sears Composted Sheep Manure. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.                                            |
| 4949           | Squire Applegate Composted Cow Manure. Comark Corp., Syracuse, N.Y. Sampled at Agway, Inc., Kensington.                                               |
| 5182/          | Squire Applegate Composted Sheep Manure. Comark Corp., Syracuse, N.Y. Sampled at Agway, Inc., Yantic.                                                 |
| 5268/          | Squire Applegate Composted Sheep Manure. Comark Corp., Syracuse, N.Y. Sampled at Mystic Oral School, Mystic.                                          |
| 5768*          | Swiss Farms Cow Manure. Swiss Farms, Inc., Philmont, N.Y. Sampled at Thompsonville Garden Center-Nursery, Thompsonville.                              |

\* Small package sample.

/ Unregistered.

<sup>1</sup> Guaranteed, 0.50%.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Total Nitrogen<br>per cent |      | Phosphoric acid<br>per cent |                |                          | Total Potash<br>per cent |      | Sand<br>per cent |
|----------------------------|------|-----------------------------|----------------|--------------------------|--------------------------|------|------------------|
| F                          | G    | Citrate<br>insoluble        | Total<br>found | Available<br>found       | F                        | G    |                  |
| 1.40                       | 0.50 | 0.17                        | 1.37           | 1.20 <sup>1</sup>        | 1.44                     | 0.50 | 48.43            |
| 2.04                       | 2.00 | 0.20                        | 2.08           | 1.88 <sup>2</sup>        | 2.11                     | 2.00 | 9.44             |
| 2.24                       | 2.00 | 1.07                        | 2.42           | 1.35 <sup>2</sup>        | 2.24                     | 2.00 | 5.51             |
| 1.36                       | 1.00 | 0.12                        | 0.77           | <u>0.65</u> <sup>2</sup> | 2.07                     | 1.00 | 21.33            |
| <u>1.80</u>                | 2.00 | 0.18                        | 0.79           | <u>0.61</u> <sup>2</sup> | 1.94                     | 2.00 | 33.64            |
| 1.56                       | 0.50 | 0.19                        | 1.61           | 1.42 <sup>1</sup>        | 2.17                     | 0.50 | 45.19            |
| 1.72                       | 1.00 | 0.21                        | 1.60           | 1.39 <sup>2</sup>        | 2.78                     | 1.00 | 38.82            |
| 1.24                       | 1.00 | 0.12                        | 1.33           | 1.21 <sup>2</sup>        | 2.04                     | 1.00 | 2.83             |
| 1.76                       | 1.00 | 0.21                        | 1.31           | 1.10 <sup>2</sup>        | 2.64                     | 1.00 | 40.67            |
| <u>1.72</u>                | 2.00 | 8.37                        | 10.82          | 2.45 <sup>2</sup>        | 1.72                     | 1.00 | 8.71             |

~~~~~ Indicates deficiencies.

² Guaranteed, 1.00%.

TABLE 7.

ANALYSES OF LIMESTONE AND SIMILAR MATERIALS

| Station
No. | Manufacturer or dealer, brand and place of sampling |
|----------------|--|
| | ALLYNDALE LIME CO., East Canaan, Conn. |
| 6258 | Ground Limestone. Sampled by Agricultural Stabilization & Conservation Service, U.S.D.A., Wapping. |
| | CONKLIN LIME CO., Canaan, Conn. |
| 6260 | Ground Limestone. Sampled by Agricultural Stabilization & Conservation Service, U.S.D.A., Wapping. |
| | LEE LIME CORP., Lee, Mass. |
| 4896 | Hydrated Lime. Sampled by Hatheway-Steane Corp., Suffield. |
| | MANUFACTURER UNKNOWN |
| 5038 | Hi Calcium Lime. Sampled by Culbro Tobacco Div., West Hartford. |
| 5030 | Hydrated Lime. Sampled by Culbro Tobacco Div., West Hartford. |
| 5040 | Land Plaster. Sampled by Culbro Tobacco Div., West Hartford. |
| 4687 | Limestone. Sampled by Warren L. Shippee, Stratford. |
| 5863 | Limestone. Sampled by Theodore F. Litwin, Storrs. |
| 5864 | Limestone. Sampled by Theodore F. Litwin, Storrs. |
| 5865 | Limestone. Sampled by Theodore F. Litwin, Storrs. |
| | NEW ENGLAND LIME CO., Canaan, Conn. |
| 4895 | Hydrated Lime. Sampled by Hatheway-Steane Corp., Suffield. |
| 6259 | Ground Limestone. Sampled by Agricultural Stabilization & Conservation Service, U.S.D.A., Wapping. |

TABLE 7.

ANALYSES OF LIMESTONE AND SIMILAR MATERIALS

| Calcium
oxide
per cent | | Magnesium
oxide
per cent | |
|------------------------------|-------|--------------------------------|-------|
| F | G | F | G |
| 30.56 | ..... | 20.72 | ..... |
| 27.32 | ..... | 18.70 | ..... |
| 70.05 | ..... | ..... | ..... |
| 69.73 | 65.00 | ..... | ..... |
| 67.86 | 65.00 | ..... | ..... |
| 32.53 | 30.00 | ..... | ..... |
| 30.07 | ..... | 21.34 | ..... |
| 29.87 | ..... | 37.61 | ..... |
| 31.71 | ..... | 39.28 | ..... |
| 27.62 | ..... | 33.56 | ..... |
| 40.54 | ..... | ..... | ..... |
| 30.84 | ..... | 37.97 | ..... |

TABLE 8.

ANALYSES OF OTHER MISCELLANEOUS MATERIALS¹

| Station
No. | Material |
|----------------|--|
| 5511 | Basic slag ² |
| 5876 | "Hoffman Aluminum Sulphate" |
| 5789 | Incinerator fly ash ³ |
| 6206 | Paper board sludge ⁴ |
| 6088 | Polyphosphate boiler compound |
| 6089 | Polyphosphate boiler compound |
| 6222 | Poultry manure |
| 6223 | Poultry manure |
| 6224 | Poultry manure |
| 6225 | Poultry manure |
| 6226 | Poultry manure |
| 6227 | Poultry manure |
| 6228 | Poultry manure |
| 6229 | Poultry manure |
| 6230 | Poultry manure |
| 6231 | Poultry manure |
| 4558 | Sedimentary deposit |
| 4746 | "20 Mule Team Fertilizer Borate 46 Coarse" |
| 5989 | Unknown fertilizer |

¹ Figures are in per cent.⁴ pH 6.7.⁵ Guaranteed 14.3%.

TABLE 8.
ANALYSES OF OTHER MISCELLANEOUS MATERIALS¹

| Total
nitrogen | Total
phosphoric
acid | Water-
soluble
potash | Water | Ash | Aluminum | Boron |
|-------------------|-----------------------------|-----------------------------|-------|------|----------|--------------------|
| 0.02 | 0.03 | 0.00 | ..... | .... | 0.07 | 0.05 |
| | | | | | | |
| 0.10 | 1.76 | .... | ..... | .... | 2.50 | 0.10 |
| 0.03 | 0.03 | 0.03 | 90.49 | 2.29 | .... | .... |
| .... | 54.21 | .... | ..... | .... | .... | .... |
| .... | 53.70 | .... | ..... | .... | .... | .... |
| 4.20 | 3.42 | 2.10 | 22.39 | .... | .... | .... |
| 3.77 | 3.96 | 2.56 | 24.08 | .... | .... | .... |
| 4.63 | 3.38 | 1.99 | 33.00 | .... | .... | .... |
| 3.11 | 2.52 | 1.44 | 51.44 | .... | .... | .... |
| 3.44 | 3.57 | 1.77 | 35.23 | .... | .... | .... |
| 3.66 | 3.31 | 1.79 | 33.60 | .... | .... | .... |
| 3.11 | 2.50 | 1.58 | 47.55 | .... | .... | .... |
| 3.87 | 3.33 | 1.91 | 23.52 | .... | .... | .... |
| 2.43 | 2.24 | 1.41 | 23.52 | .... | .... | .... |
| 2.67 | 2.52 | 1.48 | 19.04 | .... | .... | .... |
| 0.06 | 0.05 | 1.66 | ..... | .... | .... | .... |
| .... | .... | .... | ..... | .... | .... | 14.67 ⁵ |
| 6.16 | 17.79 | 5.52 | ..... | .... | .... | .... |

² Citrate-insoluble phosphoric acid, 0.02%.

"Available" phosphoric acid, 0.01%.

Calcium, 9.5%; magnesium, 5.6%; iron, 2.0%; zinc, 1.4%; copper, 0.01%.

³ Calcium, 5.1%; magnesium, 0.68%; iron, 2.3%; zinc, 0.40%; copper, 0.09%; manganese, 0.26%.

TABLE 9.

PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Station
No. | Manufacturer or distributor and brand |
|----------------|---|
| | 5-10-10 |
| 4821 | Agway, Inc., Syracuse, N.Y. <u>Agway</u> |
| 4823 | Same. <u>Eastern States</u> |
| 5537 | American Agricultural Chemical Co., North Weymouth,
Mass. <u>AA Quality</u> |
| 5010 | Same. <u>Agrico for Potatoes</u> |
| 5826 | Armour Agricultural Chemical Co., Atlanta, Ga. <u>Armour</u>
<u>Vertagreen Acid Loving Plant Food</u> |
| 5148 | Blackstone Guano Co., Inc., Richmond, Va. <u>Finelawn</u>
<u>Azalea & Camellia Food</u> |
| 5950 | Breck's Div., Asgrow Seed Co., Boston, Mass. <u>Breck's</u>
<u>Garden Gro</u> |
| 5396 | Cadwell & Jones, Inc., Hartford, Conn. <u>C & J Homogeneous</u>
<u>Granulated</u> |
| 4911 | Consolidated Rendering Co., Boston, Mass. <u>Corenco</u> |
| 5188 | Same. <u>Corenco</u> |
| 5952 | Same. <u>Corenco Liquid Concentrate</u> |
| 5764 | Faesy & Besthoff, Inc., Edgewater, N.J. <u>F & B Azalea,</u>
<u>Camellia & Rhododendron Food</u> |
| 5557 | Federal Chemical Co., Cranbury, N.J. <u>Federal Lawn Life</u>
<u>for Gardens</u> |
| 4978 | Goulard & Olena, Inc., Skillman, N.J. <u>G & O Tomato &</u>
<u>Fruit Food</u> |
| 5535 | W.R. Grace & Co., Davison Chemical Div., Baltimore,
Md. <u>Davco 3-G Granulated</u> |
| 5333 | A.H. Hoffman, Inc., Landisville, Pa. <u>Hoffman for Garden</u> |
| 5282 | Hubbard-Hall Chemical Co., Waterbury, Conn. <u>Liberty</u> |
| 5509 | Same. <u>Liberty</u> |
| 5516 | Same. <u>Liberty</u> |
| 5717 | Same. <u>Liberty</u> |
| 5518 | Same. <u>Liberty Contains Chlordane</u> |
| 4985 | Same. <u>Liberty</u> |
| 5119 | Same. <u>Liberty</u> |

TABLE 9.
PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Phosphoric Acid Found, Per Cent | | | | Percentage
of available
phosphoric
acid soluble
in water |
|---------------------------------|--|-----------|-------|--|
| Water-
soluble | Citrate-soluble
(not water-soluble) | Insoluble | Total | |
| 3.28 | 6.67 | 0.35 | 10.30 | 33.0 |
| 2.26 | 7.80 | 0.26 | 10.32 | 22.5 |
| 2.51 | 7.04 | 0.34 | 9.89 | 26.3 |
| 4.74 | 5.03 | 0.31 | 10.08 | 48.5 |
| 5.24 | 4.99 | 0.75 | 10.98 | 51.2 |
| 4.87 | 4.56 | 0.36 | 9.79 | 51.7 |
| 4.53 | 5.48 | 0.13 | 10.14 | 45.3 |
| 6.04 | 4.47 | 0.31 | 10.82 | 57.5 |
| 5.38 | 4.79 | 0.13 | 10.30 | 52.9 |
| 5.20 | 4.97 | 0.15 | 10.32 | 51.1 |
| 10.14 | 0.00 | 0.00 | 10.14 | 100.0 |
| 7.11 | 3.02 | 0.40 | 10.53 | 70.2 |
| 5.34 | 4.60 | 0.30 | 10.24 | 53.7 |
| 6.51 | 3.25 | 0.48 | 10.24 | 66.8 |
| 5.39 | 4.74 | 0.20 | 10.33 | 53.2 |
| 9.10 | 1.44 | 0.12 | 10.66 | 86.3 |
| 4.16 | 6.76 | 0.19 | 11.11 | 38.1 |
| 7.43 | 2.64 | 0.15 | 10.22 | 73.8 |
| 7.45 | 2.51 | 0.16 | 10.12 | 76.4 |
| 3.85 | 6.64 | 0.18 | 10.67 | 36.7 |
| 7.02 | 2.57 | 0.19 | 9.78 | 73.2 |
| 8.15 | 1.87 | 0.17 | 10.19 | 81.3 |
| 4.81 | 5.64 | 0.15 | 10.70 | 45.6 |

TABLE 9.

PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Station
No. | Manufacturer or distributor and brand |
|----------------|--|
| 5655 | Same. <u>Liberty with 2 lbs. Actual Disyston (POISON)</u> |
| 5772 | Old Fox Agricultural Sales, Inc., East Providence, R.I.
<u>Old Fox</u> |
| 5856 | Same. <u>Old Fox with 1.2 Magnesium</u> |
| 5562 | Olin Mathieson Chemical Corp., Little Rock, Ark. <u>Olin</u> |
| 5295 | Swift & Co., AgriChem Div., New Haven, Conn. <u>Vigoro
Azalea & Camellia Food</u> |
| 5329 | Same. <u>Vigoro Azalea & Camellia Food</u> |
| 6-8-8 | |
| 5232 | Consolidated Rendering Co., Boston, Mass. <u>Corenco
with 1.2 Magnesium</u> |
| 5940 | Hubbard-Hall Chemical Co., Waterbury, Conn. <u>Liberty
Super Spud with 1.2 Magnesium</u> |
| 5210 | Old Fox Agricultural Sales, Inc., East Providence, R.I.
<u>Old Fox with 1.2 Magnesium</u> |
| 8-12-12 | |
| 5953 | *Consolidated Rendering Co., Boston, Mass. <u>Corenco
with 0.9 Magnesium</u> |
| 5775 | Hubbard-Hall Chemical Co., Waterbury, Conn. <u>Liberty
with 1.2 Magnesium</u> |
| 10-10-10 | |
| 4810 | Agway, Inc., Syracuse, N.Y. <u>Agway Granular</u> |
| 5011 | American Agricultural Chemical Co., Carteret, N.J.
<u>AA Quality</u> |
| 5495 | Same. <u>Agrico for Top Dressing</u> |
| 4971 | Consolidated Rendering Co., Boston, Mass. <u>Corenco</u> |
| 5534 | W.R. Grace & Co., Davison Chemical Div., Baltimore,
Md. <u>Davco 3-G Granulated</u> |
| 5935 | Hubbard-Hall Chemical Co., Waterbury, Conn. <u>Lawn
Craft Turf Food (25% St. Org.)</u> |
| 4821 | Same. <u>Liberty</u> |
| 5122 | Same. <u>Liberty</u> |
| 5139 | Same. <u>Liberty</u> |

TABLE 9.
PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Phosphoric Acid Found, Per Cent | | | | Percentage
of available
phosphoric
acid soluble
in water |
|---------------------------------|--|-----------|-------|--|
| Water-
soluble | Citrate-soluble
(not water-soluble) | Insoluble | Total | |
| 5.08 | 4.25 | 0.26 | 9.59 | 54.5 |
| 4.20 | 5.20 | 0.09 | 9.49 | 44.7 |
| 4.04 | 6.20 | 0.22 | 10.46 | 39.5 |
| 3.29 | 7.65 | 0.29 | 11.23 | 30.1 |
| 6.73 | 3.28 | 0.12 | 10.13 | 67.2 |
| 5.68 | 3.17 | 0.68 | 9.53 | 64.2 |
| 4.55 | 3.47 | 0.08 | 8.10 | 56.7 |
| 3.88 | 4.35 | 0.15 | 8.38 | 47.1 |
| 1.98 | 6.63 | 0.11 | 8.72 | 23.0 |
| 6.69 | 5.09 | 0.17 | 11.95 | 56.8 |
| 4.48 | 7.29 | 0.50 | 12.27 | 38.1 |
| 1.85 | 8.53 | 0.14 | 10.52 | 17.8 |
| 4.88 | 5.40 | 0.34 | 10.62 | 47.5 |
| 3.53 | 6.27 | 0.26 | 10.06 | 36.0 |
| 6.17 | 3.99 | 0.10 | 10.26 | 60.7 |
| 5.61 | 4.08 | 0.26 | 9.95 | 57.9 |
| 5.81 | 4.19 | 0.16 | 10.16 | 58.1 |
| 4.83 | 4.76 | 0.17 | 9.76 | 50.4 |
| 5.18 | 4.80 | 0.16 | 10.14 | 51.9 |
| 4.72 | 4.78 | 0.20 | 9.70 | 49.7 |

TABLE 9.

PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Station
No. | Manufacturer or distributor and brand |
|----------------|---|
| 5252 | Same. <u>Liberty</u> |
| 5305 | Same. <u>Liberty</u> |
| 4993 | Same. <u>Liberty Contains Aldrin</u> |
| 5608 | Same. <u>With 10 lbs. Borax per Ton</u> |
| 5140 | International Minerals & Chemical Corp., Woburn, Mass.
<u>New Formula Rainbow Premium Plant Food</u> |
| 5137 | Same. <u>New Formula Super Rainbow Premium Plant Food</u> |
| 5135 | Old Fox Agricultural Sales, Inc., East Providence, R.I.
<u>Old Fox</u> |
| 5719 | Plantabbs Corp., Timonium, Md. <u>Plantabbs Liquid Plant Food</u> |

TABLE 9.
PHOSPHORIC ACID DISTRIBUTION
IN POTATO GRADE FERTILIZERS

| Phosphoric Acid Found, Per Cent | | | | Percentage
of available
phosphoric
acid soluble
in water |
|---------------------------------|--|-----------|-------|--|
| Water-
soluble | Citrate-soluble
(not water-soluble) | Insoluble | Total | |
| 7.16 | 2.99 | 0.27 | 10.42 | 70.5 |
| 5.41 | 3.57 | 0.18 | 9.16 | 60.2 |
| 2.56 | 6.45 | 1.03 | 10.04 | 28.4 |
| 5.09 | 4.63 | 0.15 | 9.87 | 52.4 |
| 6.37 | 2.74 | 0.18 | 9.29 | 69.9 |
| 6.61 | 2.78 | 0.14 | 9.53 | 70.4 |
| 4.96 | 4.58 | 0.02 | 9.56 | 52.0 |
| 9.97 | 0.63 | 0.00 | 10.60 | 94.1 |

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James E. Horsfield
Director

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